ENIGMA 2000 NEWSLETTER

http://www.enigma2000.org.uk

During the Cold War Britain's 'Y' Service continued unabated within its Empire. Most Military airfields had this facility as did some Embassies. Intercept officers supplied analysts and linguists with their material; trained at special Language Schools they contributed as much as the others to National Security.

A readable book, 'Secret Classrooms' by Geoffrey Elliott and Harold Shukman outlines the training and postings adequately.

A new ebook, recently published and available via Amazon, '**Special Operator: The rise and fall of a cut price spy**' takes one through training, travel and duties of the intercept officer.

Those who have served thus will recognise many facets of the subject in this recommended read.

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January 2016!

Best wishes to our readers for the forthcoming year..

Members will doubtless be pleased to learn that work continues on an updated Control List; with this occurring slight changes will also be noted within our 'Chart's Section' and to some reports within the newsletter.

Within the Number Station scene over the last two months, the expected shift to lower frequencies for the winter observed with schedules operated by Ivan, S06 using similar frequencies to those used in January and February, E07 using the same frequencies as in past years and still suffering from low audio for much of the time. On the last Sunday of November the 1800Z E07 transmitted a message of 164 5F groups, somewhat longer than usual and with a total transmit time of about 19 minutes.

HM01 from Cuba remains variable in signal strength and as we have gone into the second week of December there have been days when nothing heard on 11,635 and 11,462 on Saturdays, Tuesdays and Thursdays when these frequencies are expected to be active in the UK morning. Also noted the same six 5Fs being used for several days at the end of November and into December.

Morse stations:- The M51 variant "FAV22" continues at high levels of activity on 6,825 and 3,881, including over the weekend of 14th and 15th of November, the days following the tragic events in Paris on the 13th.

Mystery CW beacon:- I don't know what this is, probably nothing to do with the espionage trade, but comes under the general heading of "weird". First noted at the end of October:-
31-Oct-15, Thursday:- 1626 UTC, 10,237 kHz, point something, I think, a slow Morse transmission, found while tuning around with the receiver in the AM mode, at first assumed it was one of those Single Letter Transmission clusters but upon switching to CW discovered it wasn't. It was sending, "JO62SK common and precious JO62SK 5W dipole..."

What is that all about? I thought at first that it must be a beacon in the 30 metre amateur band then realised that this is nowhere near 30 metres. Whatever it is, it has been heard every day throughout November and December, at least in daylight hours, becomes weak towards sunset and is inaudible in the hours of darkness. If the "JO62SK" is an amateur radio QTH locator I guess that puts it well into mainland Europe, and if it is using just five watts it is doing well. Often up to an indicated S7 or so and at its strongest can be received on the little E5 portable with the whip antenna. Difficult to fathom the meaning of, "Common and precious", though.

Possible New Number Station [V28]

There is a possible new numbers station (or maybe 2) out of Asia that has periodically been reported on a few different lists for the last few weeks.

The station appears to be Korean language. It uses both an OM and YL voice. The schedule seen so far is roughly 3277 kHz, AM mode, at 1330 UTC.

I have a bad video of the station here, there are two audio dropouts as I did not realize the audio was being muted when I clicked away from the window. The station is extremely weak at my location, so I used a Japanese remote to record.

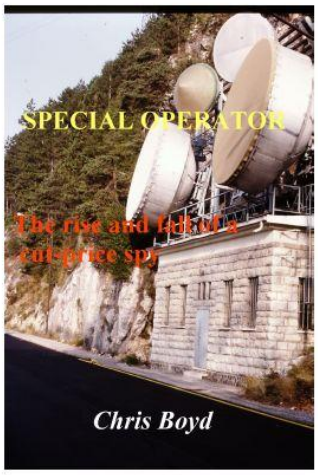
https://www.youtube.com/watch?v=qVjzCn9QuCA

Possibly connected, and not yet reported as near as I can tell, was a follow on CW station. Unfortunately I did not get a recording of this station although I did hear the last minute or so of it. The station may have started within a minute of the end of the voice station. The station appears to be CW, 4f, cut numbers, about 20 WPM.

What I copied at the end (conditions were not great, as I was not on a remote at the time, but rather on my receiver with the weak signal). (?) are characters I am not sure about, fades or noise possibly causing me to hear the wrong thing so I have replaced them with (?) instead of my guess.

54 T766 DN6U D7DA 4643
73ND 3D3N 34DD U64(?) (?)N46
UDU4 54D4 7DD5 663T 6DT5
D4T7 764N DU74 T457 7NA6
(?)DUUTTU3
AR K

Thanks T!



Those of you who read the front cover will have read the title '**Special Operator: The rise and fall of a cut price spy**' which is a new ebook, recently published and available via Amazon for your 'Kindle, Tablet, iPad' or whatever.
I was fortunate in being asked to read the draft and given the subject matter I jumped at the honour. A well written work it takes one through training, travel and duties of the intercept officer and places the reader in the set room. For those of us of a certain age the descriptive writing conjoured up the unique smell of valves [tubes] running efficiently and hot, the warmth of the set cases and so on.
Extremely humorous and equally informative the author takes the reader on a trip around certain parts of the globe where Great Britain had signals units that were employed in the collection of SIGINT, its analysis and ultimate contribution into what has evolved today as the world's greatest intelligence machine.
Members of ENIGMA2000 and other like groups will often be told that Morse is obsolete but in this book you will discover within the first few pages that wireless interception of Morse signals [!] is still carried out; the author making reference to the various modes used with 'illicit' transmissions which come from Europe, China, Cuba, Russia etc. An excellent read for the Number Station enthusiast available from Amazon on both sides of the Atlantic.

Morse Stations

All frequencies listed in kHz. Freqs are generally +- 1k
This is a representative sample of the logs received, giving an indication of station behaviour and the range of times/freqs heard. These need to be read in conjunction with any other articles/charts/comments appended to this issue.

Morse - Number Stations

M01/ 1 XIV MCW, hand (197 sched for Nov - Feb). Will change to M01/2 sched ID 463 for Mar - Apr.

November 2015:

5320	1800z	03 Nov	'197' 345 30 = =	56673...	...LG 02691 = =	Good. Ends 1809z (Note 1)	HFD/JkC	TUE
	1800z	05 Nov	'197' 568 30 = =	10524...	...LG 48460 = =	Ends 1808z (Note 2)	AB/JkC	THU
	1800z	10 Nov	'197' 467 30 = =	26264..	...LG 03830 = =	Weak. Ends 1809z	JkC	TUE
	1800z	12 Nov	'197' 505 30 = =	23233 ..	...LG 38353 = =	Good. Ends 1809z	JkC	THU
	1800z	17 Nov	'197' 926 30 = =	34961...	...LG 63709 = =	Fair. Ends 1810z (Note 3)	JkC	TUE
	1800z	19 Nov	'197' 234 30 = =	22954...	...LG 25676 = =	Fair, Ends 1808z	JkC	THU
	1800z	24 Nov	'197' 389 30 = =	85200 ..	...LG 15432 = =	Good, fast. Error in grp24	BR/JkC	TUE
4490	2000z	03 Nov	'197' 461 30 = =	99135...	...LG 49003 = =	Strong, Fast. Excellent CW. Perfect sending!	BR	TUE
	2000z	05 Nov	'197' 186 30 = =	95518...	...LG 17873 = =	Fair, fast . Excellent CW	BR/JkC	THU
	2000z	10 Nov	'197' 131 30 = =	44961...	...LG 73031 = =	Good, med-fast.	BR/HFD/JkC	TUE
	2000z	12 Nov	'197' 090 30 = =	73061...	...LG 21840 = =	Strong, fast. Numerous errors	BR	THU
	2000z	17 Nov	'197' 807 30 = =	46655...	...LG 49530 = =	Fair. Ends 2010z	JkC	TUE
	2000z	19 Nov	'197' 654 30 = =	55943...	...LG 14926 = =	Strong, Fast.	BR	THU
	2000z	24 Nov	'197' 803 30 = =	53343 ..	...LG 11265 = =	Good. Ends 1805z	JkC	TUE
	2000z	26 Nov	'197' 729 30 = =	62777...	...LG 30621 = =	Fair > Weak, fast. Poor copy	BR	THU
5465	0700z	01 Nov	'197' 113 30 = =	53920...	...LG 58792 = =	Weak, fast. Excellent CW.	BR	SUN
	0700z	08 Nov	'197' 255 30 = =	33968...	...LG 53 ... = =	Fair, v.fast. Breaking sig in places inc. LG	BR	SUN
	0700z	15 Nov	'197' 837 30 = =	82033...	...LG 28683 = =	Weak, v.fast. Speed increased during call-up	BR	SUN
	0700z	22 Nov	'197' 993 30 = =	51693...	...LG 94458 = =	Good, fast. Three repeat errors noted	BR	SUN
	0700z	29 Nov	'197' 887 30 = =	20324...	...LG 71428 = =	Weak < Good, fast. Error on grp01	BR	SUN
5810	1500z	07 Nov	'197' 146 30 = =	96587...	...LG 94523 = =	Fair. Ends 1510z 29 grps sent	E.SMITH/HFD/JkC	SAT
	1500z	14 Nov	'197' 134 30 = =	92219...	...LG 30755 = =	Good, fast. Poor copy due to XJT QRM	BR	SAT
	1500z	21 Nov	'197' 444 30 = =	. . . .	...LG 02635 = =	Fair, fast. Swamped by XJT signal HF	BR	SAT
	1500z	28 Nov	Extreme QRM from XJT transmission. No copy				BR	SAT

(Note 1) Reusing groups again. GR 21-30 here are the same as GR 21-30 M01 2000z 01 Oct 2015 (JkC)
(Note 2) Reusing groups again. GR1-10 are GR21-30 from 26/06/14, 2000z, and GR 11-20 are almost exactly the same as GR1-10 M01 01/10/15, 1800z. (JkC)
(Note 3) Too poor for full transcript, but GR1-20 appear to be the same as GR11-30 of M01 15/04/2014 (JkC)

December 2015:

4490	2000z	01 Dec	'197' 113 30 = =	06351...	...LG 65904 = =	Weak. Ends 2009z (Note 4)	JkC	TUE
	2000z	03 Dec	'197' 740 30 = =	52634...	...LG 08633 = =	Good - No errors / V.Weak	BR/JkC	THU
	2000z	08 Dec	'197' 005 30 = =	82	...LG	Weak > V.Weak, med-fast. Mostly unreadable	BR	TUE
	2000z	10 Dec	'197' 377 30 = =	28393...	...LG 14926 = =	Fair, fast. Only one DK sent at end of msg	BR	THU
	2000z	15 Dec	'197' 742 30 = =	27771...	...LG 53160 = =	Fair, fast. Only 29 grps sent	BR	TUE
	2000z	17 Dec	'197' 987 30 = =	22954...	...LG 98604 = =	Weak > Strong, Fast. Strong sig during msg	BR	THU
	2000z	22 Dec	'197' . . . . . = =	9	...LG 88587 = =	Weak, irregular. Poor copy due to QSB	BR/JkC	TUE
	2000z	24 Dec	'197' 803 30 = =	89129...	...LG 05906 = =	Weak, med-fast.	BR/JkC	THU
	2000z	29 Dec	'197' 146 30 = =	62397...	...LG 65071 = =	Fair, med-fast. Numerous errors noted	BR	TUE
	2000z	31 Dec	NRH				BR	THU
5320	1800z	01 Dec	'197' 343 30 = =	59535...	...LG 65071 = =	Weak, fast. Error in grp15	BR	TUE
	1800z	03 Dec	'197' 205 30 = =	19189...	...LG 33 .41 = =	Weak, fast. Copy difficult at times	BR	THU
	1800z	08 Dec	'197' 834 30 = =	28495...	...LG 81505 = =	Fair > Weak, med-fast. Poor copy at times	BR	TUE
	1800z	10 Dec	'197' 186 30 = =	46735...	...LG 43641 = =	Fair, fast. Error in grp16	BR	THU
	1800z	17 Dec	'197' 505 30 = =	27 .09...	...LG 12514 = =	Fair > Weak, Fast. Irregular with pauses	BR	THU
	18**02**z	22 Dec	'197' 183 30 = =	55943...	...LG 24851 = =	Fair, fast. Late call-up. Error in grp29	BR	TUE
	1800z	24 Dec	'197' 618 30 = =	12776 ..	...LG 11939 = =	Fair. Ends 1811z	AB/JkC	THU
	1800z	29 Dec	'197' 258 30 = =	06351...	...LG . 6619 = =	Weak, slow. Poor copy. Errors noted	BR	TUE
	1800z	31 Dec	NRH				BR/JkC	THU
5465	0700z	06 Dec	'197' 241 30 = =	86183...	...LG 49475 = =	Weak, fast. Grp05 sent once only	BR	SUN
	0700z	13 Dec	'197' 367 30 = =	57368...	...LG 82462 = =	Fair, fast. Irregular with many pauses	BR	SUN
	0700z	20 Dec	'197' 369 30 = =	07157...	...LG 02626 = =	Fair, fast. Corrected error grp23	BR	SUN
	07**03**z	27 Dec	'197' 637 30 = =	88481...	...LG 55134 = =	Late start. Numerous errors (Note 5)	JkC	SUN
5810	1500z	12 Dec	'197' 083 30 = =	63601...	...LG 50672 = =	Fair, fast. Copy difficult at times	BR/Schorschi	SAT
	15**03**z	19 Dec	'197' 506 30 = =	21523...	...LG 83 . . 3= =	Fair, fast. Late start. Numerous errors	BR	SAT
	1500z	26 Dec	'197' 119 30 = =	54820...	...LG 06755 = =	Weak / Fair, fast. Several errors noted	BR	SAT

(Note 4) Again reusing groups GR1-10 equal M01b GR1-10, 19/06/14, GR11-12 are GR31-32 of the same M01b, and GR21-30 are the almost same as GR21-30 M01b 05/05/14 (JkC)

(Note 5) Re-using M01b groups - GR1-22 are GR 11-32 of M01b 05 May 2014 (JkC)

M01 5320kHz 1800z 05 Nov15

197 (R4m) 568 568 30 30 = =

10524 31132 06494 71383 01915
43524 63035 50254 70086 49003
01150 43586 95822 01372 14057
21784 86041 47088 04160 01162
49338 94430 28559 11265 45215
72460 23061 34491 78455 48460
= =

568 568 30 30 000

Courtesy AB / JkC

M01 4490Hz 2000z 17 Nov15

197 (R4m) 807 807 30 30 = =

46655 60982 02174 10654 75594
47766 04715 29458 26145 83545
06964 33277 56097 38190 29370
10053 11031 68452 59845 65651
20665 11307 66275 03415 03600
75702 89725 05859 17531 49530
= =

807 807 30 30 000

Courtesy JkC

M01 4490Hz 2000z 01 Dec15

197 (R4m) 113 113 30 30 = =

06531 25664 24402 86002 47320
89449 24521 72678 83653 50467
62397 35680 90360 59906 92248
86827 61063 52600 94439 09691
71119 86607 45414 50611 01485
33212 12543 10794 83931 65904
= =

113 113 30 30 000

Courtesy JkC

M01a (formerly end of month TXs, now random)
No Reports

M01b

November 2015:

2405//3180	2110 - 2128z	06 Nov	'610' 971 31 = = 90755 ... 81165 000 V.Weak	HFD/JkC	FRI
	2110 - 2127z	12 Nov	'610' 971 31 = = 90755 ... 81165 000 Fair//Fair	JkC	THU
	2110 - 2127z	20 Nov	'610' 971 31 = = 90755 ... 81165 000 Fair//Weak	JkC	THU
2425//3205	2015z	02 Nov	'375' 971 31 = = 90755 44918 ... 81165 000 Weak	HFD/JkC	MON
3205	2015 - 2033z	09 Nov	'375' 971 31 = = 90755 ... 81165 000 Weak (//2425kHz NRH)	JkC	MON
2425//3505	2017 - 2033z	12 Nov	'375' 971 31 = = 90755 ... 81165 000 Weak//Weak	JkC	THU
	2015 - 2033z	23 Nov	'375' 971 31 = = 90755 ... 81165 000 Weak//Fair	JkC	MON
	2015 - 2033z	30 Nov	'375' 971 31 = = 90755 ... 81165 000 Weak//Fair	JkC	MON
2435//3520	1910 - 1927z	02 Nov	'853' 971 31 = = 90755 44918 ... 81165 000	HFD/JkC	MON
3520	1910 - 1927z	09 Nov	'853' 971 31 = = 90755 ... 81165 000 Fair (//2435kHz NRH)	JkC	MON
	1910 - 1928z	12 Nov	'853' 971 31 = = 90755 ... 81165 000 Weak//Fair	JkC	THU
	1910 - 1928z	23 Nov	'853' 971 31 = = 90755 ... 81165 000 Fair//Fair	JkC	MON
	1910 - 1928z	30 Nov	'853' 971 31 = = 90755 ... 81165 000 Weak//Fair	JkC	MON
2466//3545	1932z	05 Nov	'910' 973 31= = 90755	HFD	THU
2470//3545	1932 - 1949z	05 Nov	'910' 971 31 = = 90755 ... 81165 000 Weak//Fair	JkC	THU
2485//3160	2042 - 2059z	05 Nov	'382' 971 31 = = 90755 ... 81165 000 Weak//Fair	HFD/JkC	THU
	2042 - 2059z	12 Nov	'382' 971 31 = = 90755 ... 81165 000 Weak//V.Weak	JkC	THU
2655//3195	2002 - 2020z	06 Nov	'866' 971 31 = = 90755 ... Both freqs weak / Mostly unworkable	HFD/JkC	FRI
	2002 - 2019z	12 Nov	'866' 971 31 = = 90755 ... 81165 000 V.Weak//Fair	JkC	THU
	2002 - 2020z	20 Nov	'866' 971 31 = = 90755 ... 81165 000 Fair//Fair	JkC	FRI

December 2015:

2405//3180	21**13** - 2131z	04 Dec	'610' 171 32 = = 40454 ... 08506 000 Weak//Weak Up late	JkC	THU
	2110 - 2131z	11 Dec	'610' 691 54 = = 35322 ... 92315 000 Weak//Weak	JkC	THU
2425//3205	2015 - 2041z	07 Dec	'375' 691 54 = = 35322 ... 92315 000 V.Weak//Fair	JkC	MON
	2015 - 2041z	14 Dec	'375' 691 54 = = 35322 ... 92315 000 V.Weak//Fair	JkC	MON
	2015 - 2041z	21 Dec	'375' 691 54 = = 35322 ... 92315 000 V.weak//Fair	JkC	MON
2435//3520	1910 - 1936z	07 Dec	'853' 691 54 = = 35322 ... 92315 000 V.Weak//Fair	JkC	MON
	1910 - 1936z	14 Dec	'853' 691 54 = = 35322 ... 92315 000 V.Weak//Fair	AB/JkC	MON
	1910 - 1936z	21 Dec	'853' 691 54 = = 35322 ... 92315 000 V.Weak//Fair	JkC	MON
2470//3545	1932 - 1950z	03 Dec	'910' 171 32 = = 40454 ... 08506 000 Weak/Fair	JkC	THU
			At GR27 a Ham got annoyed and started sending nonsense over this TX		
3545	1932 - 1957z	24 Dec	'910' 691 54 = = 35322 ... 92315 000 Weak //2470kHz NRH	JkC	THU
2485//3160	2042 - 2058z	03 Dec	'382' 171 32 = = 40454 ... 08506 000 Weak//Fair	JkC	THU
	2042 - 2107z	24 Dec	'382' 691 54 = = 35322 ... 92315 000 V.Weak//Weak	JkC	THU
2655//3195	2002 - 2020z	04 Dec	'866' 171 32 = = 40454 ... 08506 000 Fair//Weak	JkC	THU
	2002 - 2028z	11 Dec	'866' 691 54 = = 35322 ... 92315 000 Fair//V.Weak	JkC	THU

M01b 2470//3545kHz 1932z 03 Dec15

910 (R4m) 171 171 32 32 = =

40454 42991 57635 67775 44757
06281 02031 04208 19480 46804
34122 43115 27108 50832 68388
24320 82966 78880 72111 24357
15171 79219 53264 12982 17713
04080 38022 08835 86501 77510
40758 08506 = =

171 171 32 32 000

Courtesy JkC

M01b 2435//3520kHz 1910z 07 Dec15

853 (R4m) 691 691 54 54 = =

35322 08807 17053 58614 03490
84698 54562 04648 43108 58047
74655 27683 62851 67805 31339
57242 61799 70966 34326 13390
53407 08279 06034 83637 57445
98071 65899 73923 58073 57855
96643 02660 61777 41870 48822
93094 31116 97148 05532 51712
65055 93468 91538 08292 74384
92707 41952 56598 37199 60106
38253 90871 50251 92315 = =

691 691 54 54 000

Courtesy JkC

M01c
No reports

M03 III ICW, some CW

4505	1320 - 1323z	02 Nov	543/00 = = 000 V.Weak	BR/HFD	MON
	1320 - 1323z	04 Nov	543/00 = = 000 Good	E.SMITH/JkC	WED
	1320 - 1323z	11 Nov	543/00 = = 000 Unreadable / Fair	E.SMITH/JkC	WED
	1320 - 1338z	23 Nov	541/36 = = 82175 ... 85125 = = 000 Weak	JkC	MON
	1320 - 1323z	02 Dec	543/00 = = 000 Fair	JkC	WED
	1320 - 1323z	07 Dec	543/00 = = 000 Good/Fair	AB/E.SMITH/JkC	MON
	1320 - 1323z	09 Dec	543/00 = = 000 Fair	AB/JkC	WED
	1320z	14 Dec	543/00 = = 000 (VVV at 1314 UTC)	AB	MON
4828	1320 - 1335z	05 Nov	430/30 = = 52050 ... 50898 = = 000 Fair	HFD/JkC/JPL	THU
	1320 - 1334z	08 Nov	430/30 = = 52050 22297 ..... 90422 50898 = = 000	E.SMITH	SUN
	1320 - 1323z	12 Nov	437/00 = = 000	E.SMITH/JkC	THU
	1320 - 1323z	03 Dec	437/00 = = 000 Fair / Good	AB/BR/JkC	THU
	1320 - 1337z	13 Dec	432/33 = = 34444 ... 70856 = = 000 Fair	JkC	SUN
	1320 - 1323z	17 Dec	437/00 = = 000 Fair (VVV at 1312 UTC)	AB/JkC	THU
	1320 - 1323z	31 Dec	437/00 = = 000 Weak	AB/JkC	THU

Comparison between POL FSK & M03 messages 1305z & 1320z 05 November

POL FSK

4505kHz 1305z 05 Nov15

0437 0437 0437 0437 0437
88888 88888
52050 22297 75133 03683 98465
75889 03954 09882 68626 14500
57989 52090 47442 17380 21452
25084 04028 52275 83126 76468
44936 27237 79984 56844 09749
35160 51355 60007 90422 50898
88888 88888
00034 00034

Another
stutter g

We susp
featured
00034 (

from Jim (JkC).
.

(Msg length + 4
ead of 00037).

additional

e example
ct count of

Courtesy JkC

MORSE M03

4828kHz 1320z 05 Nov15

437/30 (R3m) = =

52050 22297 75133 03683 98465
75889 03954 09882 68626 14500
57989 52090 47442 17380 21452
25084 04028 52275 83126 76468
44936 27237 79984 56844 09749
35160 51355 60007 90422 50898

= 437/30 (R5) =
(single group repeat)
= 000

Courtesy JkC

M03 4505kHz 1320z 23 Nov15

541/36 (R3m) = =

82175 32375 10258 19702 93034
92532 33162 08831 59393 82694
01253 35876 48476 72717 07400
48434 95520 95280 80620 77911
20036 40013 22363 56707 54385
98128 83556 79278 39618 86507
61857 57121 88354 94007 37661
85125 = =

541/36 (single group repeat) = 000

Courtesy JkC

M03 4828kHz 1320z 13 Dec15

432/33 (R3m) = =

34444 95832 31529 41441 80649
52212 89208 32249 24505 18609
65422 32655 37575 63219 73968
87506 49445 75557 57376 81097
26166 85451 76152 30448 59038
76447 57380 29390 24345 09225
56927 02036 70856 = =

432/33 (single group repeat) = 000

Courtesy JkC

M08a XVIII ICW / CW, some MCW

The Internet Gremlins conspired to prevent the September & October M08a report & logs from appearing in the last newsletter, so we are pleased to include them here, along with the latest report & logs for November & December below. Our apologies for the delay.

Report for Sept / Oct 2015:- AnonUS

M08a continued with its usual three daily schedules. During part of October a very loud hum was present which at times drowned out the Morse. Presumably this was some sort of transmitter problem.

As always, the weekend schedules when present used the same call-ups every time which has been the same for quite some time now. HM01 was present, audible in LSB mode on several occasions either mixing with the Morse or in place of the Morse traffic. Quite frequently a carrier (or transmitter hum) was heard but there was no Morse transmitted.

On several occasions all three call-ups ended with the same digit, whereas usually it is a mix of 1 and 2. Interestingly, when we do the analysis of spacings between the numbers the middle digit of the second and third call-ups is the same. Review of previous months' logs showed this to always be the case. The same phenomenon appears sometimes even if the last digits are not the same.

September 2015:

7554	2000z	01 Sep	[71831 84261 07582]	AnonUS	TUE
	2000z	02 Sep	Brief carrier but no Morse	AnonUS	WED
	2000z	03 Sep	[31422 44741 67172]	AnonUS	THU
	2000z	04 Sep	[06241 10562 32001]	AnonUS	FRI
	2000z	05 Sep	[18262 22501 35022] Usual weekend call-ups	AnonUS	SAT
	2000z	06 Sep	Noisy carrier but no Morse	AnonUS	SUN
	2000z	07 Sep	Noisy carrier but no Morse	AnonUS	MON
	2000z	08 Sep	[83772 06101 10432]	AnonUS	TUE
	2000z	10 Sep	[78262 82501 05022]	AnonUS	THU
	2000z	13 Sep	[18262 22501 35022] Usual weekend call-ups	AnonUS	SUN
	2000z	14 Sep	Carrier but no Morse	AnonUS	MON
	2000z	15 Sep	[75811 88242 02662]	AnonUS	TUE
	2000z	16 Sep	Up late in progress	AnonUS	WED
	2000z	17 Sep	[31231 44661 56082]	AnonUS	THU
	2000z	19 Sep	[18262 22501 35022] Usual weekend call-ups	AnonUS	SAT
	2000z	20 Sep	[18262 22501 35022] Up late but started with the usual weekend call-ups	AnonUS	SUN
	2000z	21 Sep	Carrier but no Morse by 2005z	AnonUS	MON
	2000z	22 Sep	[65642 78071 82302]	AnonUS	TUE
	2000z	25 Sep	[06351 10682 23011] Came up first at 1948z with **12345 67890** repeated for 3 minutes	AnonUS	FRI
	2000z	26 Sep	[18262 22501 35022] Up late in progress ending 2042z with AR AR AR SK followed immediately by a repeat of the call-ups	AnonUS	SAT
	2000z	29 Sep	Up late, too weak to copy	AnonUS	TUE
8009	2300z	02 Sep	[20611 32041 45462]	AnonUS	WED
	2300z	05 Sep	Up late in progress	AnonUS	SAT
	2300z	07 Sep	[44011 67432 71761]	AnonUS	MON
	2300z	09 Sep	Weak noisy carrier but no Morse	AnonUS	WED
	2300z	14 Sep	[00281 23521 36842]	AnonUS	MON
	2300z	16 Sep	[17712 21141 34462]	AnonUS	WED
	2300z	19 Sep	[18262 22501 35022] Usual weekend call-ups	AnonUS	SAT
	2300z	21 Sep	[48851 52272 65611]	AnonUS	MON
	2300z	30 Sep	Noisy carrier only	AnonUS	WED
8095	1400z	14 Sep	[37381 48021 52351] All three call-ups end with 1	AnonUS	MON
	1400z	15 Sep	[60872 73201 85532]	AnonUS	TUE
	1400z	16 Sep	[16451 20782 33111]	AnonUS	WED
	1400z	17 Sep	[30211 43542 55061]	AnonUS	THU
	1400z	18 Sep	Up late in progress	AnonUS	FRI
8096	1400z	01 Sep	[65702 77221 81552]	AnonUS	TUE
	1400z	02 Sep	[31521 44052 67371]	AnonUS	WED
	1400z	03 Sep	[- - - -- 33681 46112] Came up late in progress	AnonUS	THU
	1400z	04 Sep	[32652 43302 58322] All 3 call-ups end in 2	AnonUS	FRI

	1400z	05 Sep	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SAT
	1400z	06 Sep	Noisy carrier but no Morse		AnonUS	SUN
	1400z	07 Sep	[84532 07861 11282]		AnonUS	MON
	1400z	08 Sep	[75041 88462 02702]		AnonUS	TUE
	1400z	10 Sep	[64822 77251 81572]		AnonUS	THU
	1400z	11 Sep	[- - - - - - - - - 30531]	Up very late in progress, only the last call-up transmitted	AnonUS	FRI
	1400z	12 Sep	Carrier only		AnonUS	SAT
	1400z	13 Sep	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	1400z	19 Sep	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SAT
	1400z	20 Sep	[18262 22501 35022]	Up late but started with the usual weekend call-ups	AnonUS	SUN
	1400z	21 Sep	[71071 04402 17731]		AnonUS	MON
	1400z	22 Sep	[42801 65222 78651]		AnonUS	TUE
	1400z	23 Sep	[74182 87511 01842]		AnonUS	WED
	1400z	25 Sep	Brief transmitter check but no Morse		AnonUS	FRI
	1400z	27 Sep	[**12345 67890**]	Repeated continually	AnonUS	SUN
	1400z	28 Sep	[24682 36022 40341]		AnonUS	MON
	1400z	30 Sep	[- - - - - 72131 - - - -]	Very weak, only second call-up was audible	AnonUS	WED
8135	2300z	01 Sep	[28651 31071 44312]		AnonUS	TUE
	2300z	04 Sep	[78701 84722 06251]		AnonUS	FRI
	2300z	08 Sep	[31582 44821 58041]		AnonUS	TUE
	2300z	10 Sep	[06851 18681 23612]		AnonUS	THU
	2300z	11 Sep	[51022 72652 86672]	All call-ups end in 2	AnonUS	FRI
	2300z	13 Sep	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	2300z	15 Sep	[21032 34461 47782]		AnonUS	TUE
	2300z	17 Sep	[- -281 - - - - - - - - - -]	Up late, just at the end of the first call-up	AnonUS	THU
	2300z	18 Sep	[31741 44162 57501]		AnonUS	FRI
	2300z	22 Sep	[27482 31711 44242]		AnonUS	TUE
	2300z	24 Sep	[31451 44772 67212]		AnonUS	THU
	2300z	25 Sep	[60821 72241 05572]		AnonUS	FRI
	2300z	27 Sep	Noisy carrier only		AnonUS	SUN
	2300z	29 Sep	[85622 08141 12471]	Weak, almost drowned out by hum from transmitter	AnonUS	TUE

October 2015:

7554	2000z	01 Oct	Too weak to copy		AnonUS	THU
	2000z	02 Oct	Carrier only		AnonUS	FRI
	2000z	03 Oct	Carrier only		AnonUS	SAT
	2000z	04 Oct	Carrier only		AnonUS	SUN
	2000z	05 Oct	Carrier only		AnonUS	MON
	2000z	06 Oct	[88312 02641 16762]		AnonUS	TUE
	2000z	07 Oct	[61362 74681 87021]		AnonUS	WED
	2000z	09 Oct	Carrier only		AnonUS	FRI
	2000z	13 Oct	[53842 75672 80602]	All three call-ups end with 2	AnonUS	TUE
	2000z	14 Oct	Carrier only		AnonUS	WED
	2000z	15 Oct	[31061 43301 56622]		AnonUS	THU
	2000z	16 Oct	[51232 63022 77082]	All call-ups end in 2	AnonUS	FRI
	2000z	19 Oct	[11671 33001 46432]		AnonUS	MON
	2000z	20 Oct	[47462 51701 64132]		AnonUS	TUE
	2000z	21 Oct	Carrier only		AnonUS	WED
	2000z	22 Oct	[81661 14082 27322]		AnonUS	THU
	2000z	24 Oct	Carrier only		AnonUS	SAT
	2000z	25 Oct	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	2000z	27 Oct	[31832 44261 57582]		AnonUS	TUE
	2000z	31 Oct	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SAT
8009	2300z	03 Oct	Carrier only		AnonUS	SAT
	2300z	05 Oct	[61531 84862 06342]	Weak HM01 audible in the background	AnonUS	MON
	2300z	07 Oct	[16481 30712 43241]	Faint HM01 in the background	AnonUS	WED
	2300z	12 Oct	Morse present but hum and HM01 mixing made it unreadable		AnonUS	MON
	2300z	14 Oct	Morse present but unreadable due to transmitter hum		AnonUS	WED
	2300z	19 Oct	[85831 - - - - - - - - --]	Up late already transmitting the first call-up	AnonUS	MON
	2300z	21 Oct	Carrier and HM01 with [74029 51407 83053 82459 01563 87106]		AnonUS	WED
	2300z	24 Oct	14740 51407 83052 82459 01563 87106 only		AnonUS	SAT
	2300z	26 Oct	[62111 75432 08761]		AnonUS	MON
	2300z	28 Oct	[67681 71122 04441]		AnonUS	WED
8096	1400z	02 Oct	Carrier only		AnonUS	FRI
	1400z	03 Oct	Carrier only		AnonUS	SAT
	1400z	04 Oct	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	1400z	06 Oct	[65661 78082 82322]		AnonUS	TUE
	1400z	07 Oct	[88372 02701 15131]		AnonUS	WED
	1400z	08 Oct	Carrier only		AnonUS	THU
	1400z	09 Oct	Carrier only		AnonUS	FRI
	1400z	12 Oct	[65121 78451 82872]		AnonUS	MON
	1400z	13 Oct	[61232 74651 87082]	Very weak with loud hum	AnonUS	TUE
	1400z	14 Oct	Carrier only		AnonUS	WED
	1400z	15 Oct	[- - - - - - - - -- 58081]	Did not come up until just before the third message was transmitted	AnonUS	THU
	1400z	16 Oct	[55012 78342 82661]		AnonUS	FRI
	1400z	19 Oct	[33661 46102 60421]		AnonUS	MON
	1400z	20 Oct	[47042 51471 64702]		AnonUS	TUE
	1400z	21 Oct	[- - - - - - - - - - - - - --]	Up late in progress	AnonUS	WED
	1400z	22 Oct	[05621 18051 21372]		AnonUS	THU

	1400z	23 Oct	Up late in progress		AnonUS	FRI
	1400z	24 Oct	Carrier only		AnonUS	SAT
	1400z	25 Oct	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	1400z	28 Oct	[21531 43061 56382]		AnonUS	WED
	1400z	30 Oct	Up late in progress		AnonUS	FRI
	1400z	31 Oct	Carrier only		AnonUS	SAT
8135	2300z	01 Oct	[51131 64052 77181]		AnonUS	THU
	2300z	02 Oct	Carrier only		AnonUS	FRI
	2300z	04 Oct	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	2300z	06 Oct	[35132 48561 52881]		AnonUS	TUE
	2300z	08 Oct	Barely audible Morse		AnonUS	THU
	2300z	09 Oct	Carrier only		AnonUS	FRI
	2300z	13 Oct	[133- - 28- - - 33 - - -]	Hum louder than the Morse again	AnonUS	TUE
	2300z	15 Oct	[4538- 58- - - 620- -]	Extremely weak	AnonUS	THU
	2300z	20 Oct	[86871 00212 13531]		AnonUS	TUE
	2300z	22 Oct	HM01 in LSB mode with [74029 51407 83053 82459 01563 87106]		AnonUS	THU
	2300z	23 Oct	[63442 76771 88102]	HM01 strong also with [74029 51407 83053 82459 01563 87106] audible in LSB mode	AnonUS	FRI
	2300z	25 Oct	[18262 22501 35022]	Usual weekend call-ups HM01 also with 14740 51407 83052 82459 01563 87106	AnonUS	SUN
	2300z	25 Oct	[55322 78652 82071]		AnonUS	TUE
	2300z	29 Oct	[32742 45161 58502]		AnonUS	THU
	2300z	30 Oct	[65351 88672 02111]		AnonUS	FRI

Report for Nov/ Dec 2015:- AnonUS

M08a continued on its usual times and frequencies during November/December, there seem to have been more technical difficulties than usual with various hums, missing transmissions and late starts. Additionally the usual weekend call-ups of 18262 22501 35022 put in several mid-week appearances and even mixed with the regular transmissions on occasionally.

Events of note:

Monday 16 Nov the 1400z transmitter came up early with the weekend call-up transmission in progress, (curious because the weekend call-ups hadn't been heard on the previous two days).

At 2000z on the same day the call-up 6262 was heard but most likely the transmitter was switched on half way through the first dash in 8 "G" making it sound like 6 "R".

At 2300z the Morse sounded like a continuous tone probably due to two Morse transmissions at once.
On 26 Nov at 2300z the usual weekend call-ups were heard on a Thursday.
On 10 Dec at 1400z the usual weekend call-ups were heard on a Thursday.
On 22 Dec at 1400z all three call-ups ended with a 2 which is unusual.

November 2015:

7554	2000z	07 Nov	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SAT
	2000z	08 Nov	Carrier only		AnonUS	SUN
	2000z	10 Nov	[40681 53022 65341]		AnonUS	TUE
	2000z	16 Nov	Came up with call-ups 6262 22501 35022 before going in to 18262 Repeated 5 times. Presume the first 6 heard was in fact half of the first dash in 8 (G) making it sound like 6 (R). Again these are the usual weekend call-ups		AnonUS	MON
	2000z	17 Nov	[52032 65461 78782]		AnonUS	TUE
	2000z	18 Nov	Up late in progress		AnonUS	WED
	2000z	20 Nov	Hum present but no Morse except for possibly two very short dots		AnonUS	FRI
	2000z	21 Nov	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SAT
	2000z	24 Nov	Missed call-ups		AnonUS	TUE
	2000z	28 Nov	Hum present but no Morse		AnonUS	SAT
	2000z	29 Nov	Hum present but no Morse		AnonUS	SUN
8009	2300z	16 Nov	Again almost a continuous tone Suspect they left the weekend call-ups active and mixed the Monday call-ups on top		AnonUS	MON
	2300z	18 Nov	[73322 86651 08181]		AnonUS	WED
	2300z	21 Nov	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SAT
	2300z	23 Nov	Hum only		AnonUS	MON
	2300z	28 Nov	Hum present but no Morse		AnonUS	SAT
	2300z	30 Nov	[73412 85831 08261]		AnonUS	MON
8095	1345z (IP)		With **12345 67890** repeated then [85031 08352 11781] at 1400z (Unsure of the date between 02 Nov & 05 Nov) Another transmission between 02Nov & 05 Nov with call-ups [01062 14401 27732]			
8096	1400z	06 Nov	[47171 51402 63832]		AnonUS	FRI
	1400z	08 Nov	Carrier only		AnonUS	SUN
	1400z	09 Nov	Carrier only		AnonUS	MON
	1400z	10 Nov	[33552 - - - - - - - - --]	Came up late right at the end of the first call-up	AnonUS	TUE
	1400z	11 Nov	Carrier only		AnonUS	WED
	1400z	12 Nov	Carrier only		AnonUS	THU
	1400z	13 Nov	Up late in progress		AnonUS	FRI
	1400z	16 Nov	Came up in progress at 1346z eventually AR AR AR 22501 22501 22501 22501 22501 heard At 1357z a second M08a is added causing the signal to become an almost continuous tone. Looks like they left the weekend call-ups running and then probably added the Monday message on top.		AnonUS	MON
	1400z	17 Nov	Up late in progress		AnonUS	TUE

	1400z	18 Nov	[33571 56812 60332]		AnonUS	WED
	1400z	19 Nov	Up late in progress		AnonUS	THU
	1400z	20 Nov	Loud hum still present, possibly some Morse underneath it but hard to tell for sure		AnonUS	FRI
	1400z	23 Nov	Hum Only		AnonUS	MON
	1400z	24 Nov	Loud hum again, possible Morse underneath but impossible to say for sure		AnonUS	TUE
	1400z	25 Nov	[13182 26411 32532]		AnonUS	WED
	1400z	26 Nov	Hum only		AnonUS	THU
	1400z	27 Nov	[84361 07602 11032]		AnonUS	FRI
	1400z	28 Nov	Hum present but no Morse		AnonUS	SAT
	1400z	29 Nov	Hum present but no Morse		AnonUS	SUN
	1400z	30 Nov	[28651 32072 45311]		AnonUS	MON
8135	2300z	01 Nov	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	2300z	07 Nov	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SAT
	2300z	10 Nov	[74271 86602 00032]	Up first with HM01 32433 32231 53876 61432 48080 43331 before switching to Morse	AnonUS	TUE
	2300z	12 Nov	[03802 18021 22342]		AnonUS	WED
	2300z	13 Nov	[52012 65331 78761]	1khZ tome makes copy very difficult	AnonUS	FRI
	2300z	17 Nov	[12271 25512 38831]		AnonUS	TUE
	2300z	20 Nov	Hum present but no Morse		AnonUS	FRI
	2300z	24 Nov	[42652 55081 67412]		AnonUS	TUE
	2300z	26 Nov	[18262 22501 35022]	Slow Morse due to these being the usual weekend call-ups	AnonUS	THU
	2300z	27 Nov	[34701 47132 51552]		AnonUS	FRI
	2300z	29 Nov	Hum present but no Morse		AnonUS	SUN

December 2015:

7554	2000z	01 Dec	[77181 80512 03842]		AnonUS	TUE
	2000z	02 Dec	Hum present but no Morse		AnonUS	WED
	2000z	03 Dec	Up late in progress		AnonUS	THU
	2000z	04 Dec	Hum present but no Morse		AnonUS	FRI
	2000z	10 Dec	[85311 06041 20372]		AnonUS	THU
	2000z	13 Dec	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	2000z	15 Dec	[04772 17101 21432]		AnonUS	TUE
	2000z	18 Dec	[61542 84871 07202]		AnonUS	FRI
	2000z	24 Dec	[63212 75641 88062]		AnonUS	THU
	2000z	25 Dec	[77862 81201 04532]		AnonUS	FRI
	2000z	27 Dec	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	2000z	27 Dec	[68642 72071 85402]		AnonUS	TUE
	2000z	31 Dec	[78681 82011 04342]		AnonUS	THU
8009	2300z	02 Dec	Hum present but no Morse		AnonUS	WED
	2300z	07 Dec	[62301 83041 06362]		AnonUS	MON
	2300z	16 Dec	Up late in progress		AnonUS	WED
	2300z	19 Dec	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SAT
	2300z	21 Dec	Up late in progress		AnonUS	MON
	2300z	28 Dec	[78612 02041 15372]		AnonUS	MON
	2300z	30 Dec	[48381 52622 65151]		AnonUS	WED
8096	1400z	01 Dec	[61142 74471 87802]		AnonUS	TUE
	1400z	02 Dec	[14142 37471 41712]		AnonUS	WED
	1400z	03 Dec	[81652 03071 16311]		AnonUS	THU
	1400z	04 Dec	Up late in progress		AnonUS	FRI
	1400z	07 Dec	Hum present but no Morse		AnonUS	MON
	1400z	10 Dec	[18262 22501 35022]	Up late with usual weekend call-ups two days early	AnonUS	THU
	1400z	11 Dec	[- - - -- - - - -- 01812]	Up late, very weak. Not 100% sure of the one call-up transmitted	AnonUS	FRI
	1400z	13 Dec	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	1400z	16 Dec	[21301 34622 40642]		AnonUS	WED
	1400z	17 Dec	Hum only, no Morse		AnonUS	THU
	1400z	18 Dec	Hum only, no Morse		AnonUS	FRI
	1400z	21 Dec	[37772 41201 54532]		AnonUS	MON
	1400z	22 Dec	[42772 53412 68432]	All call-ups end in 2	AnonUS	TUE
	1400z	23 Dec	[60112 73541 06862]		AnonUS	WED
	1400z	25 Dec	[12501 25022 38352]		AnonUS	FRI
	1400z	27 Dec	[18262 22501 35022]	Usual weekend call-ups. TX restarted at 1434z with the same call-ups	AnonUS	SUN
	1400z	28 Dec	[35252 46502 50821]		AnonUS	MON
	1400z	30 Dec	[- - - - - - - - -- 25302]		AnonUS	WED
	1400z	31 Dec	[- - - - - - - - -- 07611]	Up very late in progress	AnonUS	THU
8135	2300z	03 Dec	Hum present but no Morse		AnonUS	THU
	2300z	05 Dec	[57532 61061 74381]		AnonUS	FRI
	2300z	10 Dec	Up late in progress		AnonUS	THU
	2300z	11 Dec	[24602 37032 41451]		AnonUS	FRI
	2300z	15 Dec	[33281 56512 60841]		AnonUS	TUE
	2300z	17 Dec	[66202 70521 83852]		AnonUS	THU
	2300z	18 Dec	Up late in progress		AnonUS	FRI
	2300z	22 Dec	[88822 02241 15672]		AnonUS	TUE
	2300z	25 Dec	[43721 56142 60471]		AnonUS	FRI
	2300z	27 Dec	[18262 22501 35022]	Usual weekend call-ups	AnonUS	SUN
	2300z	29 Dec	[12171 34811 47242]		AnonUS	TUE
	2300z	31 Dec	[83042 06361 10602]		AnonUS	THU

Call-up Number Sequence Analysis

Analysis of call-up spacings. (Spacing between the 1st, 2nd, 3rd and 4th digits of the call-ups). Example **43561 66881 78322 21 32 34 23**

As with previous observations the M08a call-ups follow a pattern between the three numbers. (See Issue 81 - Mar 2014 for full details)

Call-up Analysis (Sept Oct)

65702 77221 81552 11 23 43 23	17712 21141 34462 11 33 33 32	53842 75672 80602 21 34 70 32
71831 84261 07582 11 33 33 32	30211 43542 55061 11 32 34 32	133 - - 28- - - 33- - - 11 54 ?? ??
28651 31071 44312 11 22 33 23	31231 44661 56082 11 32 43 32	31061 43301 56622 11 23 33 32
31521 44052 67371 12 33 43 32	31741 44162 57501 11 33 34 23	4538 - 58- - - 620 - - 11 33 ?? ??
20611 32041 45462 11 23 34 32	48851 52272 65611 11 33 34 23	55012 78342 82661 21 33 33 32
- - - - - 33681 46112 -1 -3 -4 -2	42801 65222 78651 21 33 34 23	51232 63022 77082 11 24 70 86
31422 44741 67172 12 33 33 23	65642 78071 82302 22 33 33 32	33661 46102 60421 12 33 43 32
32652 43302 58322 11 15 70 42	27482 31711 44242 11 33 34 23	11671 33001 46432 21 23 34 23
06241 10562 32001 12 32 34 23	74182 87511 01842 11 33 43 22	47042 51471 64702 11 33 43 32
78701 84722 06251 11 62 14 23	31451 44772 67212 12 33 34 23	47462 51701 64132 11 33 33 33
44011 67432 71761 21 33 43 23	06351 10682 23011 11 33 33 32	86871 00212 13531 11 33 33 32
75041 88462 02702 11 33 43 23	60821 72241 05572 12 23 33 23	05621 18051 21372 11 32 33 32
83772 06101 10432 11 33 33 23	24682 36022 40341 11 23 33 32	81661 14082 27322 21 33 33 23
31582 44821 58041 11 34 31 32	85622 08141 12471 11 33 43 23	63442 76771 88102 11 32 33 32
64822 77251 81572 11 33 33 32	51131 64052 77181 11 33 81 23	62111 75432 08761 12 33 33 23
78262 82501 05022 11 33 34 32	61531 84862 06342 21 32 34 37	31832 44261 57582 11 33 33 32
06851 18681 23612 11 34 70 32	65661 78082 82322 11 33 33 23	55322 78652 82071 21 33 33 32
51022 72652 86672 21 14 60 32	88312 02641 16762 11 24 31 32	21531 43061 56382 21 23 43 32
37381 48021 52351 11 13 63 33	35132 48561 52881 11 33 43 32	67681 71122 04441 12 33 43 32
00281 23521 36842 21 33 33 32	88372 02701 15131 11 33 43 23	32742 45161 58502 11 33 34 23
60872 73201 85532 11 32 33 23	61362 74681 87021 11 33 33 23	65351 88672 02111 21 33 34 23
75811 88242 02662 11 33 34 32	16481 30712 43241 21 33 34 23	
21032 34461 47782 11 33 43 32	65121 78451 82872 11 33 34 32	*Courtesy AnonUS*
16451 20782 33111 11 33 33 32	61232 74651 87082 11 33 43 23	

Call-up Analysis (Nov Dec)

The usual pattern continues with the call-ups. The main anomaly is where all three call-ups end with the same digit in which case the sequence between the numbers is unusual, although there is one instance where the unusual sequence is seen but the last digits are different. These instances are followed with a * in the column.

85031 08352 11781 11 32 34 23	81652 03071 16311 11 23 33 23	63212 75641 88062 11 23 43 32
01062 14401 27732 11 33 43 33	57532 61061 74381 11 33 43 32	12501 25022 38352 11 33 43 23
52032 65461 78782 11 33 43 32	62301 83041 06362 21 13 63 42	77862 81201 04532 11 33 33 33
12271 25512 38831 11 33 33 32	85311 06041 20372 12 13 63 33	43721 56142 60471 11 33 33 23
33571 56812 60332 21 33 34 32	24602 37032 41451 11 33 34 32	35252 46502 50821 11 13 33 42
73322 86651 08181 11 32 34 33	04772 17101 21432 11 33 33 23	78612 02041 15372 21 33 33 33
42652 55081 67412 11 32 34 32	33281 56512 60841 21 33 33 23	68642 72071 85402 11 33 34 32
13182 26411 32532 11 35 31 22	21301 34622 40642 11 35 30 22 *	12171 34811 47242 21 23 73 33
84361 07602 11032 11 33 33 33	66202 70521 83852 11 33 33 23	48381 52622 65151 11 33 34 33
34701 47132 51552 11 33 34 32	61542 84871 07202 21 33 33 32	78681 82011 04342 11 32 33 23
73412 85831 08261 11 23 43 23	37772 41201 54532 11 33 43 23	83042 06361 10602 11 33 33 23
61142 74471 87802 11 33 34 32	42772 53412 68432 11 15 60 32 *	
77181 80512 03842 11 23 43 23	88822 02241 15672 11 33 34 23	
14142 37471 41712 21 33 33 33	60112 73541 06862 12 33 43 32	*Courtesy AnonUS*

M12 IB ICW, some MCW / CW, short 0. Reuses many freqs year on year.

New ID's may be only for the month/sched shown, but not necessarily unknown . The reason for their reuse, some after long periods of time, is unknown.

Brian's (BR) logs previously shown under the Charts Section will, from this issue, be incorporated into the logs below.

Following a long period of decline in M12 schedules, there now appears to be a fair amount of new activity, including a new daily 2000z ID 463 that ran through November to Mid-December, but now appears to have ceased.. It is difficult not to associate this increased activity with the ongoing situation in Ukraine & the more recent involvement of Russia in the Syrian civil war

One interesting new schedule is ID 975 with a December transmission at 2210/30/50z on Monday & Thursday. ID 975 has an interesting history. First logged as an evening sched in 2008 with almost identical frequencies, (ending ..81 rather than ..37), changing in February 2009 to appear as an XPA data transmission. Nothing then was heard of the ID until July 27 2011 where it was used to send an unprecedented 1291 grp msg. Quite an event. It had not been reported again until now.

Technical errors on transmissions, which was a frequent problem at times in recent months, now seem to have almost disappeared, although Edd (E.SMITH), did note that the message count was sent as 4 dashes, (instead of one dot 4 dashes), on both the 1900z ID 257 & the 2000z ID 463 call-ups on 11 November. This would seem to be a shortening of the character - which does appear to have been the problem before.

Jim (JkC) logged ID 124 transmission on 10 November at 1940z on 8116kHz indicating a 1900/20/40z schedule which would appear to have been an error as it was expected at 1930/1950/2010z - but failed to appear in that slot. However, the following week all was back to normal. It is possible that the schedule was temporarily changed for some reason - but an error would seem more likely.

Asiatic M12 Scheds **New scheds in bold type**

14793/13903/12203	**0100/20/40z**	**10 Nov**	**792**	**1**	**(516 85)**	**40225**	**67415**	**...**	**61352**	**35628**	**000**	**Fair Via Hong Kong**	JkC	TUE

European M12 Logs

November 2015: **New scheds in bold type**

4617/5317/---	0530/0550/0610z	02 Nov	638	000									HFD/JkC	MON
	0530/0550/0610	09 Nov	638	000									BR	MON
	0530/0550/0610z	16 Nov	638	000									E.SMITH	MON
	0530/0550/0610z	23 Nov	638	000									E.SMITH	MON
	0530/0550/0601z	30 Nov	638	000	Good								E.SMITH/JkC	MON
5429/4629/4029	2200/20/40z	04 Nov	460	1	(9079 165)	94076	45817	...	42315	66833	000	Fair	HFD/JkC	WED
	2200/20/40z	11 Nov	460	000	Fair								JkC	WED
	2200/20/40z	18 Nov	460	000	Good								JkC	WED
	2200/20/40z	25 Nov	460	1	(9722 183)	24943	14186	...	61533	50617	000	Fair/V.Weak	JkC	WED
5884	0730z	05 Nov	888	000									E.SMITH	THU
5884/6884/---	0730/0750/0810z	12 Nov	888	000									E.SMITH/HFD/JkC	THU
	0730/0750/0810z	19 Nov	888	000									E. SMITH	THU
	0730/0750/0810z	26 Nov	888	000									E.SMITH	THU
5737/4537	**2233(IP)/2250z**	**19 Nov**	**975**	**1**	**(9255 72)**	**77015**	**40293....**		**77787**	**32693**	**000**	**Good*****	JkC	THU
6937/5737/4537	**2210/30/50z**	**23 Nov**	**975**	**000**	**Good**								JkC	MON
	2210/30/50z	26 Nov	975	000									BR	THU
	2210/30/50z	30 Nov	975	1	(6054 65)	32294	60146	...	62498	93117	000	Fair/V.Weak	JkC	MON
7637/9137/10237	0600/20/40z	07 Nov	612	1	(9079 165)								BR	SAT
	0600/20/40z	14 Nov	612	000									E.SMITH	SAT
	0600/20/40z	21 Nov	612	000									E.SMITH/HFD	SAT
	0600/20/40z	28 Nov	612	1	(9722 183)	24943	14186....		61533	50617	000	000	AB/E.SMITH	SAT
8047/6802/5788	2000/20/40z	01 Nov	463	1	(3432 85)								BR	SUN
	1800/20/40z	02 Nov	463	1	(7506 142)	44225	55000	...	18095	55658	000	Fair	JkC	MON
	2000/20/40z	02 Nov	463	1	(5537 74)	64910	83200	...	07349	15908	000	Good	JkC	MON
	2000/20/40z	03 Nov	463	1	(470 180)	17628	71368	...	20158	60046	000	Fair	JkC	TUE
	1900/20/40z	04 Nov	463	1	(6379 131)	93969	53509	...	61410	67803	000	Fair	HFD/JkC	WED
	2000/20/40z	04 Nov	463	1	(470 180)	17628	71368	...	20158	60046	000	Fair (Rpt of Tue)	JkC	WED
	2000/20/40z	05 Nov	463	1	(7045 86)	76513	96960	...	42425	50162	000		AB/JkC	THU
	2000/20/40z	06 Nov	463	1	(**604 185**)	31235	03806	...	30274	67414	000	Weak	JkC	FRI
	2000/20/40z	07 Nov	463	1	(**604 185**)	31235	03806	...	30274	67414	000	Fair (Rpt of Fri)	JkC	SAT
	1800/20/40z	09 Nov	463	1	(3328 144)	16300	78020	...	58056	03377	000	NRH/ Weak/Fair	JkC	MON
	2000/20/40z	09 Nov	463	1	(2493 84)	16932	90706	...	73082	82841	000	Fair	JkC	MON
	2000/20/40z	10 Nov	463	1	(9109 90)	10848	91426	...	74532	56075	000	Weak/Fair	JkC	TUE
	1900/20/40z	11 Nov	463	1	(1345 138)	66574	04035	...	33147	57592	000	Weak	E.SMITH	WED
	2000/20/40z	11 Nov	463	1	(8355 87)	10751	92167	...	24772	66274	000	Weak / V.Weak	E.SMITH	WED
	2000/20/40z	12 Nov	463	1	(3 . .1 .6)							Weak	BR	THU
	2000/20/40z	13 Nov	463	1	(7948 78)	96014	50702	...	26736	55278	000	Fair	JkC	FRI
	2000/20/40z	14 Nov	463	1	(2177 69)	87560	99942	...	66464	16328	000		BR/E.SMITH	SAT
	2000/20/40z	15 Nov	463	1	(5699 85)								BR	SUN
	1800/20/40z	16 Nov	463	1	(9171 146)	04549	93152....		27535	22099	000	Fair	JkC	MON
	2000/20/40z	16 Nov	463	1	(**529 98**)	22682	94541....		50419	93262	000	Fair/Good	JkC	MON
	2000/20/40z	17 Nov	463	1	(**529 98**)	22682	94541	...	50419	93262	000	Fair/Good/Fair	JkC	TUE
	1900/20/40z	18 Nov	463	1	(7801 132)	71155	43593....		47781	44274	000	Weak/Fair/Good	JkC	WED
	2000/20/40z	18 Nov	463	1	(3539 72)	70708	35674	...	48101	01738	000	Weak/V.Weak	JkC	WED
	2000/20/40z	20 Nov	463	1	(**200 161**)	99013	45826	...	73963	18836	000	Fair/Fair/Good	JkC	FRI
	2000/20/40z	21 Nov	463	1	(**200 161**)	99013	45826	...	73963	18836	000	V.Weak/Weak/Str	E.SMITH	SAT
	2000/20/40z	22 Nov	463	1	(9624 65)									
	1800/20/40z	23 Nov	463	1	(2081 142)	85273	13930	...	97603	41289	000	Fair/V.Weak	JkC	MON
	2000/20/40z	23 Nov	463	1	(8213 84)	85504	54454	...	42168	83677	000	Fair/V.Weak	E.SMITH/JkC	MON
	2000/20/40z	24 Nov	463	1	(5610 81)	10490	36790....		83200	21494	000	Fair	JkC	TUE
	1900/20/40z	25 Nov	463	1	(3987 137)	52173	94848....		39523	48222	000	Fair/V.Weak	JkC	WED
	2000/20/40z	25 Nov	463	1	(8831 69)	38963	56347	...	24763	07679	000	Fair/V.Weak	JkC	WED
	2000/20/40z	26 Nov	463	1	(173 86)								BR	THU
	2000/20/40z	27 Nov	463	1	(8033 82)								BR	FRI
	2000/20/40z	28 Nov	463	1	(3237 66)	26003	53168	...	35539	24466	000	V.Weak	E.SMITH	SAT
	2000/20/40z	29 Nov	463	1	(3908 84)								BR	SUN
	1800/20/40z	30 Nov	463	1	(6869 144)	42268	65660		93432	73443	000	Fair/V.Weak	JkC	MON
	2000/20/40z	30 Nov	463	1	(6142 63)	86390	35625	...	52941	67673	000	Fair/Fair/Good	JkC	MON
9162/8062/7462	1310/30/50z	05 Nov	104	1	(2992 129)	87867	94886	...	01710	92701	000	Fair	HFD/JkC	THU
	1310/30/50z	07 Nov	104	1	(2992 129)								BR	SAT
	1310/30/50z	12 Nov	104	000									E.SMITH/JkC	THU
	1310/30/50z	19 Nov	104	1	(864 177)	45608	55406	...	84953	13481	000	Fair/V.Weak	E.SMITHJkC	THU
	1310/30/50z	21 Nov	104	1	(864 177)								BR	SAT
	1310/30/50z	26 Nov	104	1	(6481 159)								BR	THU
9176/7931/6904	1900/20/40z	02 Nov	257	1	(4989 80)								BR	MON
	1800/20/40z	04 Nov	257	1	(845 84)	42918	01484	...	56838	22534	000	Fair	HFD/JkC	WED
	1900/20/40z	09 Nov	257	1	(436 111)	00990	15785	...	93354	40208	000	Fair	JkC	MON
	1800/20/40z	11 Nov	257	1	(3530 152)	09996	23543	...	54360	63830	000	Strong/Weak	E.SMITH	WED

	1900/20/40z	16 Nov	257 1 (8286 88)	53667	90840....	77586	62560	000	Fair		JkC	MON
	1800/20/40z	18 Nov	257 1 (9586 138)	87816	02661 ...	58982	01844	000	Fair/V.Weak		JkC	WED
	1900/20/40z	23 Nov	257 1 (4962 90)	32554	58427 ...	45023	79632	000	Weak/V.Weak		JkC	MON
	1800/20/40z	25 Nov	257 1 (4550 140)	82323	17733 ...	08482	31328	000	Fair/V.Weak		JkC	WED
	1900/20/40z	30 Nov	257 1 (8805 89)	76194	79486 ...	65344	99696	000	Fair		JkC	MON
10343/9264/8116	1930/1950/2010z	03 Nov	124 1 (1650 68)	00501	67303 ...	57692	27398	000	Weak/Fair/Fair		HFD/JkC	TUE
	1800/20/40z	05 Nov	124 1 (7050 144)	50572	02824 ...	10196	42239	000	Weak/Fair/Fair		HFD/JkC	THU
8116	**1940z**	**10 Nov**	**124 1 (1084 110)**	**39569**	**14500 ...**	**47 ..8**	**. 4515**	**000**	**Error ?**		JkC	TUE
	1800/20/40z	12 Nov	124 1 (4478 149)	60468	[rest unworkable]		V.Weak/Fair/V.Weak				JkC	THU
	1930/1950/2010z	17 Nov	124 1 (9915 109)	32149	22765 ...	17508	36. 64	000	Fair		JkC	TUE
	1800/20/40z	19 Nov	124 1 (1916 143)	47914	24261 ...	61514	28637	000	Weak/V.Weak		JkC	THU
8116	2010z	24 Nov	124 1 (513 192)	.1506	[Rest unworkable]						JkC	TUE
	1800/20/40z	26 Nov	124 1 (8065 150)								BR	THU
11435/10598/9327	1930/1950/2010z	04 Nov	938 1 (1743 53)	35350	47629 ...	43591	31530	000	Fair		HFD/JkC	WED
	1930/1950/2010z	11 Nov	[NRH]								E.SMITH	WED
	1700/20/40z	16 Nov	[NRH]								JkC	MON
12162/11566/10711	**1700/20/40z**	**05 Nov**	**546 1 (2930 80)**	**97906**	**20852 ...**	**87931**	**21589**	**000**	**Fair**		BR/JkC	THU
	1700/20/40z	12 Nov	546 1 (4.6 111)	00990	15785 ...	23354	40208	000	NRH/Weak/V.Weak		HFD/JkC	THU
	1700/20/40z	19 Nov	546 1 (5779 89)	73472	40727 ...	13956	23772	000	Weak/V.Weak		JkC	THU
12205/13559/14728	1100/20/40z	02 Nov	973 1 (159 152)								BR	MON
	1100/20/40z	09 Nov	973 1 (6408 119)								BR	MON
	1100/20/40z	16 Nov	973 1 (1835 129)	33411	67467 ...	54724	39839	000			E.SMITH	MON
	1100/20/40z	21 Dec	973 1 (1412 141)	78167	00503 ...	40118	34125	000	000		AB	MON
	1100/20/40z	30 Nov	973 1 (1417 141)	57328	28306 ...	66414	21322	000			E.SMITH/Schorschi	MON
13386/12189/11491	1500/20/40z	05 Nov	725 1 (3626 111)	37576	84975 ...	28069	87782	000			AB/HFD/JkC	THU
	1500/20/40z	12 Nov	725 1 (8631 116)	03192	60311 ...	77205	56628	000	Good		JkC	THU
	1500/20/40z	19 Nov	725 1 (4848 138)	20210	13294 ...	01864	26088	000	Good		JkC	THU
13386	1500 - 1510z	26 Nov	725 1 Fair								Schorschi	THU
15826/17426/---	**0710/30/50z**	**04 Nov**	**847 000**								E.SMITH	WED
	0710/30/50z	11 Nov	847 000								E.SMITH	WED
	0710/30/50z	18 Nov	847 000								E.SMITH	WED
	0710/30/50z	25 Nov	847 000								E.SMITH	WED
15969/17479/18169	1010/30/50z	05 Nov	941 1 (3370 127)	08155	97236	31259	45774			AB/E.SMITH/HFD/Schorschi		THU
	1010/30/50z	08 Nov	941 1 (3370 127)	08155	97236	31259	45774	000			E.SMITH	SUN
	1010/30/50z	12 Nov	941 000								E.SMITH/JkC	THU
	1010/30/50z	19 Nov	941 1 (710 93)	82163	65915	29603	40542	000			E.SMITH	THU
17443	**1520z**	**06 Nov**	**649 000**								E.SMITH	FRI
18643/17443/---	**1500/20/40z**	**13 Nov**	**649 000 Fair**								E.SMITH/JkC	FRI
	1500/20/40z	20 Nov	649 000 Fair								JkC/Schorschi	FRI
	1500/20/40z	27 Nov	649 000								E.SMITH	FRI

December 2015:

4457/5157/---	0530/0550/0610z	07 Dec	417 000								BR	MON
	0530/0550/0610z	14 Dec	417 000								BR	MON
	0530/0550/0610z	21 Dec	417 000								AB/BR	MON
	0530/0550/0610z	28 Dec	417 000								BR	MON
5312/4512/---	2200/20/40z	02 Dec	350 000 Fair								HFD/JkC	WED
	2200/20/40z	09 Dec	350 000 Fair								JkC	WED
	2200/20/40z	16 Dec	350 1 (2045 145)	38381	51366 ...	91338	34327	000	Fair		JkC	WED
	2200/20/40z	23 Dec	350 000 Fair								JkC	WED
	2200/20/40z	30 Dec	350 000 Fair								BR	WED
5284/5784/---	0730/0750/0810z	03 Dec	277 000								E.SMITH	THU
	0730/0750/0810z	10 Dec	277 000 Strong							AB/E.SMITH/Schorschi		THU
	0730/0750/0810z	17 Dec	277 000								AB/BR	THU
	0730/0750/0810z	24 Dec	277 000								BR	THU
	0730/0750/0810z	31 Dec	277 000								AB/BR	THU
5784/7584/9184	0600/20/40z	05 Dec	751 000								AB/BR	SAT
	0600/20/40z	12 Dec	751 000								E.SMITH	SAT
	0600/20/40z	19 Dec	751 1 (2045 145)	38381	51366...						BR	SAT
	0600/20/40z	26 Dec	751 000								BR	SAT
6937/5737/4537	**2210/30/50z**	**03 Dec**	**975 1 (6054 65)**	**32294**	**60146 ...**	**62498**	**93117**	**000**	**Good**		JkC	THU
	2210/30/50z	**07 Dec**	**975 000 Weak**								JkC	MON
	2210/30/50z	10 Dec	975 000 Weak								JkC	THU
	2210/30/50z	14 Dec	975 1 (5266 96)	29476	46312 ...	14801	37500	000	Good		JkC	MON
	2210/30/50z	17 Dec	975 1 (5266 96)								BR	THU
	2210/30/50z	21 Dec	975 000 V.Weak								JkC	MON
	2210/30/50z	24 Dec	[NRH] Ceased?								BR/JkC	THU
7741/6841/5741	1310/30/50z	03 Dec	787 000 Good								HFD/JkC	THU
	1310/30/50z	05 Dec	787 000								AB/E.SMITH	SAT

	1310/30/50z	10 Dec	787 1 (6651 131) 68519 91784... 36517 29910 000 Good	E.SMITH/JkC	THU
	1310/30/50z	12 Dec	787 1 (6651 131) 68519 91784 ...36517 29910 000 000	AB/BR	SAT
	1310/30/50z	17 Dec	787 000 Good	AB/JkC	THU
6841	1330z	19 Dec	787 000 Good	JkC	SAT
	1310/30/50z	24 Dec	787 1 (677 97) 73592 51282 ... 72084 46665 000 Good	AB/JkC	THU
	1310/30/50z	26 Dec	787 1 (677 97) 73592 41282 .... 72084 46665 000 Good	AB/JkC	SAT
	1310/30/50z	31 Dec	787 000 Good	AB/JkC	THU
8047/6802/5788	2000/20/40z	01 Dec	463 1 (3110 64) 22309 17746... 57915 09595 000 Fair	HFD/JkC	TUE
	1900/20/40z	02 Dec	463 1 (6391 149) 16490 37860... 54107 23722 000 Fair/ Good	JkC	WED
	2000/20/40z	02 Dec	463 1 (7329 76) 22771 47414... 59750 29377 000 Fair/ Good	JkC	WED
	2000/20/40z	03 Dec	463 1 (6965 78) 64122 51629 .. 12964 38316 000 Fair	E.SMITH	THU
	2000/20/40z	04 Dec	463 1 (2529 78) 48414 95043... 62054 75021 000 Fair/Good	JkC	FRI
	2000/20/40z	05 Dec	463 1 (7080 62) 36545 67008... 68168 71552 000 Fair	E.SMITH/JkC/JPL	SAT
	2000/20/40z	06 Dec	463 1 (9350 73)	BR	SUN
	1800/20/40z	07 Dec	463 1 (2042 144) [Rest unworkable] Weak/V.Weak	JkC	MON
	2000/20/40z	07 Dec	463 1 (1090 89) 10372 32966 ...70270 04481 000 000	AB/BR	MON
	2000/20/40z	08 Dec	463 1 (219? 73?) V.Weak	BR	TUE
	1900/20/40z	09 Dec	463 1 (7849 143) 96455 72136... 15 .86 15922 000 Weak	JkC	WED
	2000/20/40z	09 Dec	463 1 (8185 50) Weak	BR	WED
	2000/20/40z	10 Dec	463 1 (2939 66)	BR	THU
	2000/20/40z	11 Dec	463 1 (7629 81) 07683 54273... 80730 03250 000 Fair	JkC	FRI
	2000/20/40z	12 Dec	463 1 (7906 68) 61736 66098...	BR	SAT
	2000/20/40z	13 Dec	463 1 (5140 75) 40471 53933...	BR	SUN
	1800/20/40z	14 Dec	463 1 (1407 142) 08851 45918... .7228 57863 000 Weak/Good	AB/HFD/JkC	MON
	2000/20/40z	14 Dec	463 1 [Only heard on 5788kHz V.Weak]	BR	MON
	2000/20/40z	15 Dec	[NRH]	BR	TUE
	1900/20/40z	16 Dec	463 1 (2887 141) 16157 11005 .. 21489 33229 000 5788kHz only Weak	JkC	WED
	2000/20/40z	16 Dec	[NRH] Ceased?	BR/JkC	WED
	1800/20/40z	21 Dec	463 1 (3676 149) 13330 88143... 67461 93253 000 Good	AB/JkC	MON
	1900/20/40z	23 Dec	463 1 (6199 148) 59000 97196... 85388 63942 000 Fair	AB/JkC	WED
	1800/20/40z	28 Dec	463 1 (2195 146)	BR	MON
	1900/20/40z	30 Dec	463 1 (5211 144)	BR	WED
9176/7931/6904	1800/20/40z	02 Dec	257 1 (**746 194**) 00942 14099... 35022 46557 000 Fair/Good	JkC	WED
	1900/20/40z	07 Dec	257 1 (5398 89) 73189 8 . .35... 17145 65357 000 V.Weak/Weak	JkC	MON
	1800/20/40z	09 Dec	257 1 (**746 194**) 00942 14099....35022 46557 000 Weak	JkC	WED
	1900/20/40z	14 Dec	257 1 (7758 80) 70882 85042... 95088 33260 000 Weak/Fair	JkC	MON
	1800/20/40z	16 Dec	257 1 (3925 148) 54704 10 . . 1.. 54504 45200 000 V.Weak/Weak	JkC	WED
	1900/20/40z	21 Dec	257 1 (8992 90) 47333 85041... 30086 78287 000 Weak	JkC	MON
	1800/20/40z	23 Dec	257 1 (9932 130) 98630 70246... 65861 44630 000 Weak	JkC	WED
	1900/20/40z	28 Dec	257 1 (2197 82)	BR	MON
	1800/20/40z	30 Dec	257 1 (8694 134)	BR	WED
10343/9264/8116	1930/1950/2010z	01 Dec	124 1 (511 192) 61406 96193 ... 22230 04 . .9 000 V.Weak/Weak/ Fair	JkC	TUE
	1800/20/40z	03 Dec	124 1 (6495 144) 25401 3. . 83 ... 27273 46725 000 NRH/V.Weak/Weak	JkC	THU
	1800/20/40z	10 Dec	124 1 (6161 144) 65874 36487.... 51475 71532 000 V.Weak/Fair	JkC	THU
	1800/20/40z	15 Dec	124 1 (. . . . .) [Audible only on 8116kHz - No useful copy]	BR	TUE
	1800/20/40z	17 Dec	124 1 (. . . . .) [V.Weak on all freqs - No useful copy]	BR	THU
	1930/1950/2010z	22 Dec	124 1 (9579 94) 16641 07972 ... 21855 65399 000 V.Weak/Weak	JkC	TUE
	1800/20/40z	24 Dec	124 1 (2026 143) 59827 6 .545.... 24169 69985 000 Fair/Weak	JkC	THU
	1930/1950/2010z	29 Dec	124 1 (. . 5 . . .) NRH/Weak/Weak	BR	TUE
	1800/20/40z	31 Dec	124 1 (9064 141) 59083 33847.... 75560 38008 000 Fair	JkC	THU
12162/11566/10711	1700/20/40z	03 Dec	[Unworkable except to confirm sked] V.Weak	HFD/JkC	THU
	1700/20/40z	10 Dec	[Unworkable except to confirm sked] V.Weak	BR/JkC	THU
	1700/20/40z	17 Dec	546 1 (1982 88) 00219 07426.... 16998 01370 000 Weak/Fair	JkC	THU
	1700/20/40z	24 Dec	546 1 (7590 87) 49606 29931 ... 91419 67680 000 Good/Fair	JkC	THU
	1700/20/40z	31 Dec	546 1 (5661 87) 96914 50056 ... 17743 10079 000 Fair	JkC	THU
12205/13559/14728	1100/20/40z	07 Dec	973 1 (172 148) Fair	BR/Schorschi	MON
	1100/20/40z	14 Dec	973 1 (7366 137) 81607 42075 ..... 76130 04355 000	E.SMITH	MON
	1100/20/40z	21 Dec	973 1 (1412 141)	BR	MON
13559	1120z	28 Dec	973 1 (8741 142)	AB	MON
13386/12189/11491	1500/20/40z	03 Dec	725 1 (172 148) 54242 38288 ... 85678 19495 000 Good	JkC/Schorschi	THU
	1500/20/40z	10 Dec	725 1 (1863 127) 22418 39354 ... 98489 81733 000 Good	AB/JkC	THU
	1500/20/40z	17 Dec	725 1 (3245 118) 19101 63797.... 36139 06377 000 Strong	AB/JkC	THU
	1500/20/40z	24 Dec	725 1 (7140 141) 24688 89692 ... 64183 35951 000 Good	AB/JkC	THU
	1500/20/40z	31 Dec	725 1 (8708 128) 15733 37116 ... 51421 51863 000 Fair	AB/JkC	THU
13569/14869/16269	1010/30/50z	06 Dec	582 1 (5204 115) 88659 53127... 94162 07899 000	AB/E.SMITH	SUN
	1010/30/50z	10 Dec	582 000	BR/HFD	THU
	1010/30/50z	13 Dec	582 000 Good	AB/JkC	SUN
	1010/30/50z	17 Dec	582 000	BR	THU
14869	1030z	27 Dec	582 1 (4272 149) 77835 65169... 92096 09697 000 000	AB	SUN
16319/14919/---	**1500/20/40z**	**04 Dec**	**394 000 Fair**	JkC	FRI
	1500/20/40z	11 Dec	394 000 V.Weak	JkC	FRI
	1500/20/40z	18 Dec	394 000 No Tx on 14919kHz. Carrier on/off a couple of times (AB)	AB/BR	FRI
	1500/20/40z	25 Dec	394 000	BR	FRI
17478/19578/---	**0710/30/50z**	**09 Dec**	**458 000**	AB/E.SMITH	WED

0710/30/50z	16 Dec	458 000	BR	WED
0710/30/50z	23 Dec	458 000	BR	WED
0710/30/50z	30 Dec	458 000	BR	

M12 8047kHz 2000z 05 Dec 15

463 1 (R2m) 7080 62 7080 62

36545 67008 84727 86128 07398 87729 82885 97961 68675 07532
07167 71298 47488 47673 22650 29235 70768 71528 36348 80387
90228 92865 18161 62542 74842 05301 99927 90191 75771 39556
76093 90538 86031 81912 02405 89885 46690 37443 25000 09235
47271 59869 25380 54393 02899 37504 56671 80737 74270 70024
82211 91333 51128 04411 76786 58522 89925 04012 00844 07684
68168 71552

000 000

Courtesy E.SMITH

M14 IA MCW / ICW / MCWCC, short 0

November 2015:

Plenty of activity with some transmissions appearing to be out of schedule, numerous breakdowns & restarts noted by Jim (JkC), on the 8167kHz & 10423kHz transmissions. Jim remarks that this has the feel of a training net.

Jim has tried unsuccessfully to find the other sending of the 1600z, having tried 3-6MHz at 1500/1530/1630/1700z with no luck at all. If other Morse monitors could help with this, any reports would be welcome.

The 1820z schedule switched from 20 to 15 grps in November, then to 22 grps for December. Jim notes that the groups sent were very unimaginative, as can be seen from his transcripts reproduced below.

4512	1605 (IP) - 1630z	03 Nov	[IP] (761 113) ... LG 36704 761 113 00000 Good. No ending = sent.	JkC	TUE
	1600 - 1629z	17 Nov	475 (761 113) = 49401 ... 36704 00000 Fair. No repeat found	JkC	TUE
4636	1820 - 1828z	10 Nov	186 (718 20) = 20192 ... 11095 = 718 20 00000 Good	HFD/JkC	TUE
	1820 - 1837z	24 Nov	186 (133 15) = 12345 56565 ... 76765 89078 = 133 15 00000 Good	JkC	TUE
4761	1920z	11 Nov	748 (718 20) = 20192...	HFD	WED
	1920 - 1927z	25 Nov	748 (718 20) = 20192 ... 11095 = 718 20 00000 Good	JkC	WED
4975	1800 - 1803z	06 Nov	382 00000 Good	E.SMITH/HFD/JkC	FRI
	1800 - 1803z	20 Nov	382 00000 Fair	JkC	FRI
5374	1700 - 1703z	06 Nov	382 00000 Good	HFD/JkC	FRI
	1700 - 1703z	20 Nov	382 00000 Fair	JkC	FRI
5430	0800z	28 Nov	171 (133 15) = 12345 32321.... ..-... 788 00000 Numerous problems!	AB	SAT
5560	0900z	28 Nov	171 (133 15) = 12345 32321.....889077 00000 Better than 0800z but still with errors	AB	SAT
8167	1335 (IP) - 1345z	03 Nov	[IP] (296 53) = ...59273 = 296 53 00000 Good. No repeat found	JkC	TUE
	1330 - 1346z	05 Nov	058 (431 55) = 67555.... 90615 = 431 55 00000 Good (Note 1)	BR/JkC	THU
	1330 - 1349z	10 Nov	058 (769 52) = 11427 ... 44344 = 769 52 00000 Good (Note 2)	JkC	TUE
	1330 - 1346z	12 Nov	058 (324 57) = 06589 ... 97077 = 324 57 00000 Good	JkC	THU
	1330 - 1345z	17 Nov	058 (967 51) = 16023 ... 07312 = 967 51 00000 Good	JkC	TUE
	1330 - 1345z	19 Nov	058 (213 54) = 67405 ... 23123 = 213 54 00000 Good	JkC	THU
	1330 - 1349z	24 Nov	058 (679 58) = 92955 ... 43775 = 679 58 00000 Good (Note 3)	JkC	TUE
10423	1308(IP) - 1319z	10 Nov	[IP] (769 52) ... LG 44344 = 769 52 00000 Good (Note 4)	JkC	TUE
	1300 - 1316z	12 Nov	058 (324 57) = 06589 ... 97077 = 324 57 00000 Good	JkC	THU
	1300 - 1315z	17 Nov	058 (967 51) = 16023 ... 07312 = 967 51 00000 Good	JkC/Schorschi	TUE
	1300 - 1315z	19 Nov	058 (213 54) = 67405 ... 23123 = 213 54 00000 Good	JkC	THU
	1300 - 1319z	24 Nov	058 (679 58) = 92955 ... 43775 = 679 58 00000 Good (Note 5)	JkC/Schorschi	TUE
18041	0500 - 0513z	04 Nov	952 (476 50) = 43935 ... 45689 = 00000 Fair Via Hong Kong remote	JkC	WED
	0500 - 0511z	06 Nov	952 (146 50) = 90457 ...[Rest unworkable] Via Broome remote	JkC	FRI

(Note 1) This appears to be the same message, also caught in progress (by JPL on the Siberia remote), on 04 June 2014. Freq is the same, (JkC)
(Note 2) Tx broke at 1337z (GR14), returned to call-up for 2 minutes, continued from GR09 (JkC)
(Note 3) Tx broke at GR 47, returned to call-up for 2 minutes the continued from GR43 (JkC)
(Note 4) Found I/P. Tx broke at 1310z (GR27), returned to call-up for 2 minutes, continued from GR23. See transcript (JkC)
(Note 5) Tx broke at GR 19, returned to call-up for 2 minutes the continued from GR15 (JkC)

December 2015:

4512	1600 - 1603z	01 Dec	475 00000 Good No repeat found	JkC	TUE
	1600 - 1604z	15 Dec	475 00000 Fair	E.SMITH/JkC	TUE
4636	1820 - 1829z	08 Dec	186 (144 22) = 12345 ... 01005 144 22 00000 Good	AB/JkC	TUE
	1820 - 1829z	22 Dec	186 (144 22) = 12345 ... 01000 144 22 00000 Good	JkC	TUE

4761	1920 - 1927z	09 Dec	748 (279 15) = 98712 ... 6 .567 279 15 Weak No '000' at end	JkC	WED
	1920 - 1929z	23 Dec	748 (144 22) = 12345 ... 01000 144 22 00000 Good	JkC	WED
4975	1800 - 1804z	04 Dec	382 00000 Good	JkC	FRI
	1800z	18 Dec	382 00000	AB	FRI
5240	2300z	06 Dec	376 (279 15) = 98712 56767 ... 65567 279 279 15 15 (No zero's at the end)	AB	SUN
5374	1700 - 1704z	04 Dec	382 00000 Good	AB/JkC	FRI
	1700z	18 Dec	382 00000	AB	FRI
5430	0800z	05 Dec	171 (144 22) = 12345 23456 .... 10201 01005 144 22 00000	AB/HFD	SAT
5560	0900z	05 Dec	171 (144 22) =	HFD	SAT
5931	1336 (IP) - 1349z	24 Dec	[IP] (417 69) ... LG 39096 = 417 69 00000 Good	JkC	THU
5947	0600 - 0604z	27 Dec	382 00000 Good	JkC	SUN
6767	0700z	13 Dec	382 00000	AB	SUN
	0700 - 0704z	27 Dec	382 00000 Good	AB/JkC	SUN
9080	1317 (IP) - 1319z	24 Dec	[I/P] 417 69) ... LG 39096 = 417 69 00000 Good	JkC	THU
17548	0930z	10 Dec	457 00000	AB	THU

M14 18041kHz 0500z 04 Nov 15

952 (R4m) 476 476 50 50 = =

43935 16183 76808 44364 66805 39952 23518 21036 84830 98627
35703 56366 35371 30051 32820 73884 42300 59723 48012 42504
41173 95377 44728 78369 82224 10715 79142 75712 78381 54234
88067 65244 90487 44103 07034 22830 66925 34992 48240 78978
79810 67827 93051 99088 24963 38388 78739 36379 77835 45689
= =

476 476 50 50 00000

Courtesy JkC

M14 10423kHz 1308z 10 Nov 15

058 (R4m) 769 769 52 52 = =

11427 14585 51935 02546 80306 44631 28736 11101 04318 63334
77891 47098 95478 75296 19951 75966 69285 74768 85031 17597
46755 49623 01431 33180 07348 39719 56217 71900 41211 91855
38731 32192 74167 78489 02929 17218 63906 72411 09520 89285
90792 94568 33820 52875 91752 77215 50264 20965 10653 09590
29525 44344 = =

769 769 52 52 00000

Courtesy JkC

M14 4636kHz 1820z 24 Nov 15

186 (R4m) 133 133 15 15 = =

12345 56565 32321 89012 45456
12356 12334 65656 78780 09876
13456 76890 65991 76765 89078
= =

133 133 15 15 00000

Courtesy JkC

M14 4636kHz 1820z 08 Dec 15

186 (R4m) 142 142 22 22 = =

12345 23456 34567 45678 00110
44512 32324 54321 65432 76123
12333 65432 65651 89897 01451
01234 01235 56711 01567 01929
10201 01005 = =

142 142 22 22 00000

Courtesy JkC

Transcripts of the November & December 1820z transmissions, showing obviously contrived groups construction as compared with the two msgs above.

M23 O ICW
No Reports

M24 IA MCW / ICW / MCWCC (high speed version of M14), short 0

November 2015:

5410	1530 - 1545z	23 Nov	801 (527 69) = 71584 ... 05343 = 527 69 00000 Fair	JkC	MON
8116	1500 - 1515z	23 Nov	801 (527 69) = 71584 ... 05343 = 527 69 00000 Fair	JkC	MON
9470	1406 (IP) - 1415	23 Nov	[IP] (527 69) = ...LG 05343 = 527 69 00000 Fair 24wpm	JkC	MON
10212	1336 - 1346z	19 Nov	215 (307 86) = ... LG 58942 = 307 86 00000 Good (No repeat found)	JkC	THU

December 2015:

9412	1330 - 1343z	01 Dec	534 (982 71) = 54516 ... 84162 = 982 71 00000	Good	JkC	TUE
10212	1330 - 1343z	03 Dec	534 (982 71) = 54516 ... 84162 = 982 71 00000	Good	JkC	THU
	1330 - 1344z	10 Dec	980 (564 73) = 93255 ... 70876 = 564 73 00000	Good	JkC	THU
	1330 - 1344z	24 Dec	980 (253 77) = 54855.....91865 = 253 77 00000	Good	JkC/RNGB	THU
10463	1343 (IP) - 1345z	22 Dec	[IP} 253 77 ...LG 91865 = 253 77 00000	Good	JkC	TUE
10473	1330 - 1344z	08 Dec	980 (564 73) = 93255 ... 70876 = 564 73 00000	Good 24 wpm	AB/JkC	TUE
11487	1306 (IP) - 1313z	01 Dec	[IP] (892 71) ...LG 84162 = 982 71 00000	Good 24wpm	JkC	TUE
12093	1300 - 1313z	03 Dec	534 (982 71) = 54516 ... 84162 = 982 71 00000	Good 24wpm	JkC	THU
	1300 - 1314z	10 Dec	980 (564 73) = 93255 ... 70876 = 564 73 00000	Good	JkC	THU
	1300 - 1314z	24 Dec	980 (253 77) = 54855 ... 91865 = 253 77 00000	Good	AB/JkC/RNGB	THU

M24 9470/8116/5410kHz 1400/1500/1530z 23 Nov 15

801 (R4m) 527 527 69 69 = =

71584 97413 51610 41894 93376 99309 73168 83613 87653 49634
09900 43359 91790 40517 23697 58285 87217 16311 83257 62228
35280 48387 90739 91951 89478 47574 22139 68381 78610 82501
46668 43320 73064 28064 86858 37202 04044 36538 01471 56196
30876 13534 72761 13298 85301 38313 93415 05721 42939 68491
56086 61738 35778 44046 82581 36100 08268 45181 58019 91376
43240 11900 06087 74697 86316 90551 31200 97268 05343 = =

527 527 69 69 00000

Courtesy JkC

M24 10473kHz 1330z 08 Dec 15

980 (R4m) 564 564 73 73 = =

93255 00614 34947 24244 33407 90303 43598 46126 24146 91565
92325 24817 07605 32613 84971 68365 43241 81801 93664 64143
76581 85099 14915 03084 79156 59511 05502 02842 83066 59652
84073 59570 58608 59645 09419 83001 08416 17553 71323 94506
76531 14498 54973 92839 95861 85691 64823 17242 22448 85542
18878 62595 29995 54026 49320 26318 63083 76522 70427 91679
72515 54291 99704 77237 81231 27782 43183 07070 54219 19963
80813 81493 70876 = =

564 564 73 73 00000

Courtesy JkC

M24 Activity on 10775kHz

Some unscheduled activity from M24 was noted by both Jim (JkC) & Ary (AB) in late December on 10775kHz using the ID 975. Jim thought this had the feel of training transmissions, confirmed by Richard (RNGB) who reports that ID 975 is very common in the Family 1a training nets & that the frequency of 10775kHz is also much used.

10755 1234 (IP) - 1235z 22 Dec I/P ... LG 43999 = 000 30 00000] Good JkC TUE

In progress. (Each group sent twice) ... 50798 68528 86234 42404 68609 53755 56982 72432 33203 94201 43999 = 000 000 30 30 00000

Jim notes that the grps above are reproduced as grps15 - 25 of the later msg.

10755 1300 - 1418z 22 Dec 975 45678 000 30 = 83625 ... 11157 = 000 30 00000 Good JkC TUE

975 975 975 45678 (R4m) 000 000 30 30 = = (each group twice)
83625 92883 20091 68941 87769 61037 12172 27770 75371 18074
43411 31911 12638 36278 50798 68528 86234 42404 68609 53755
56982 72432 33203 94201 43999 52441 37532 16205 38301 11157
= = 000000 (1309z)

975 (R4m) 000 000 30 30 = =
Repeats message up to GR15, then long tone (simulated failure?) (1317z)

975 (R4m) 000 000 30 30 = =
Repeats message up to GR 19, ends abruptly (1324z)
12345 67890 (1325z) (R19m) (silence - 1344z)

975 975 975 45678 (R4m) (1348z) 000 000 30 30 = =
Repeats message

975 (R4m) (1358z)
Repeats message up to GR22, ends abruptly

975 975 975 45678 (R4m) (1406z)
Repeats message to GR02, then long tone

975 (R4m)
Repeats message to GR5, ends abruptly (1418z) (silence)

10755 1048z 24 Dec 805 UTC: 975 (R4) 12345 12345 [Long Tone] 83625 92883 .... 18074 43411 31911 AB THU

10755 kHz, 24-12-2015, 1048 UTC, ends at 1106 UTC
975 975 975 12345 (R) long tone
83625 92883 stops, then 18074 43411 31911
975 875 975 12345 (R)
975 975 975 00000 (R)
975 975 975 (R4)

M97 CW, partner station to V30 10375kHz Starts 1453 - 1500z (Variable) .

Due to the poor reception of this signal in both the UK and Canada, GlobalTuners receivers at Hong Kong, Mojave Desert & Sydney - as well as the Twente SDR, were used frequently to confirm the msg detail.

No logs received. Last heard with the SD84 message on 06 & 07 May 2015.

Morse Stations - Not Number Related

M51 XlX

3881//6825	1140z (IP) - 1535+	21 Dec	Continuous grps - Mostly 5-ltr, but with occasional 5-number or 5-puncuation chars Ceased at 1229z for the regular M51a structured Morse lessons, then re-commenced immediately the lessons ended at 1316z..	BR	MON
	1304 - 1530z+	22 Dec	Continuous grps - Mostly 5-ltr, but with occasional 5-number or 5-puncuation chars Started immediately after the M51a FAV22 sign-off at 1304z	BR	TUE
	1308 - 1530z+	23 Dec	Continuous grps - Mostly 5-ltr, but with occasional 5-number or 5-puncuation chars Started immediately after the M51a FAV22 sign-off at 1308z	BR	WED

M51a (FAV22) Daily Mon - Fri, Sun & some Sats. See NL 72 for details

3881//6825

1230 - 1216z	21 Dec	Lundi-Leçon	11-1/1 Codé	11-1/2 Clair,	11-1/3 Codé,	11-1/4 Clair (420 grps/hr)	BR	MON
1715 - 1800z*	21 Dec	Lundi-Leçon	01-1/1 Codé	01-1/2 Clair,	01-1/3 Codé,	01-1/4 Clair (420 grps/hr)	BR	MON
1230 - 1304z	22 Dec	Mardi-Leçon	12-1/1 Codé	12-1/2 Clair,	12-1/3 Codé,	12-1/4 Clair (600 grps/hr)	BR	TUE
1230 - 1308z	23Oct	Mercredi- Leçon	13-1/1 Codé,	13-1/2 Clair,	13-1/3 Codé,	13-1/4 Clair (720 grps/hr)	BR	WED
1715 - 1801z*	23 Dec	Lundi-Leçon	01-1/1 Codé	01-1/2 Clair,	01-1/3 Codé,	01-1/4 Clair (420 grps/hr)	BR	WED

* Appear to be random unscheduled lessons - Day used was incorrect for 23 Dec.

M89 O

This is a summary of activity from the M89 stations. To be read in conjunction with JPL's logs which can now be found in the charts section.

On one exchange monitored 03 December on 8006kHz, the operator sent 'QSY 23', (Change frequency to 23), which JPL was able to pick up the change to 8017kHz confirming that 23 (presumably Ch23), is 8017kHz.

The ALSK call suffered some round slip problems over December. The round slip should be sent as V DKSL (x3) DE ALSK (x2)

On 08 December the call was reversed as logged by JPL on 3821//5644kHz at 1910z when it was sending V ALSK (x3) DE DKSL (x2)

Then on 09 & 12 December JPL logged the station on both the 3821//5644kHz & 9131//10947kHz respectively sending V DUBT?TU (x3) DE DU6 (x2) with the letters B & T are being sent as BT. On the 13 December the error had been corrected.

Operator Chat from M89

Op. chat & traffic reported on the following freqs. (KHz) (See JPL's full logs for details).

3333	5047	5454	6579	8006	9123
3358	5088	5462	6666	8017	
3747	5119	5474	6680	8030	
3787	5120	5555	6775	8047	10169
3811	5240	5560	6781	8063	10171
3821	5293	5566	6818	8064	10708
3860	5373	5624	6834	8067	10721
3870	5421	5644	6836	8079	10786
	5442	5734	6855	8175	10919
4444	5450			8176	
			7777		

New Scheds for November & December 2015:		**From logs submitted from JPL**	
3642//5320	New pairing on known freqs	First heard 05 Dec	V DKG6 (x3) DE 3A7D (x2)
3767//3787//4532	New freqs for this Round Slip	First Heard 13 Dec	V M8JF (x3) DE RIS9 (x2)
4131//**4886**	New // for this Round Slip	First heard 12 Nov	V JKDJ (x3) DE SLBC (x2)
4131//**4880**	New // for this Round Slip	First Heard 26 Dec	V JKDJ (x3) DE SLBC (x2
3777/4532/6793/8060	Using all four freqs	First heard 02 Nov	V M8JF (x3) DE RIS9 (x2)
4532//6793//8060	Using all three freqs	First heard 01 Nov	V M8JF (x3) DE RIS9 (x2)
4542//NRH	New freq for this Round Slip	First heard 24 Nov	V M8JF (x3) DE RIS9 (x2)

Chart of M89 Freq & Call signs heard in Nov / Dec 2015 **New Scheds shown in Bold Type**

Freq in KHz	Call Slip
3300//NRH	V MW3D (x3) DE 2SLC (x2)
3642//NRH	V DKG6 (x3) DE 3A7D (x2)
3642//5320//4532	**V DKG6 (x3) DE 3A7D (x2)**
3642//7602	V DKG6 (x3) DE 3A7D (x2)
3777//4532	V M8JF (x3) DE RIS9 (x2)
3777//4532//6793//8060	V M8JF (x3) DE RIS9 (x2)
3821//5644	V DKSL (x3) DE ALSK V (x2)
3767//3787	**V M8JF (x3) DE RIS9 (x2)**
4131//NRH	V JKDJ (x3) DE SLBC (x2)
4131//**4880**	V JKDJ (x3) DE SLBC (x2)
4131//**4886**	V JKDJ (x3) DE SLBC (x2)
4225//NRH	V 7NPE (x3) DE QV5B (x2)
4225//5500	V 7NPE (x3) DE QV5B (x2)
4532//NRH	V M8JF (x3) DE RIS9 (x2)
4542//NRH	**V M8JF (x3) DE RIS9 (x2)**
4532//6793//8060	V M8JF (x3) DE RIS9 (x2)
4720//NRH	VVV WNF (x3) DE FXM (x2)

Freq in kHz	Call Slip
4860// 6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ?
5177//NRH	**V JKDJ (x3) DE SLBC (x2)**
5500//NRH	V 7NPE (x3) DE QV5B (x2)
5588//NRH	V MW3D (x3) DE 2SLC (x2)
5644//NRH	V DKSL (x3) DE ALSK (x2)
5801//NRH	V DKG6 (x3) DE 3A7D (x2)
5801//10180	V DKG6 (x3) DE 3A7D (x2)
6421//9131	V DKSL (x3) DE ALSK (x2)
6775//NRH	V SD2Y (x3) DE CV6K (x2)
6793//8060	V M8JF (x3) DE RIS9 (x2)
6840//10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
8060//NRH	V M8JF (x3) DE RIS9 (x2)
8110//NRH	V 7NPE (x3) DE QV5B (x2)
9131//NRH	V DKSL (x3) DE ALSK (x2)
9131//10947	V DKSL (x3) DE ALSK (x2)
10180//NRH	V DKG6 (x3) DE 3A7D (x2)

Courtesy JPL

M89 6775kHz 2130 - 12146z 19 Nov 2015

V SD2Y DE CV6K (Remote tuner Hong Kong)]

SD2Y DE CV6K (IP – Hand sent – 2130z)
Hr SVC GA HR SVC GA BT BT
1756/39/94/49/COMM/1680/DUTY AR BBT
1756/39/94/59 EEEEE BT
1756/39/94/49/COMM/1680/DUTY AR (2132z)
HR NR 110T HR N4 110T (Long zero followed by short zero)
E EX EX EX DE JJT55 JJT55 JJT55 (2133z - Silent)
VVV (2134z)
JJT55 VVV (1535z)
VVV
JJT55 VA (1535z - Silent)
VVV VVV JJT88 VVV VVV (2146z)
JJT88 VA (2146z)

Courtesy JPL

M89 5644kHz 1353 - 1355z 24 Nov 2015

V DKSL (x3) DE ALSK (x2) (IP - Cont'd)

(Remote tuner Siberia)]

SVC GA (IP – Machine sent – 1353z)
NR 46 245 RMKS 3507 TO 6.3/6792394
FM .FM FM 8243082402
FM 2092..243507 824 43051.
FM 1990196214501
FM BT ...5078
FM 364 AR
FM .. 4 6792394..3..
FM 8243082402
FM 209278243507824 6430510
FM.. 7201 III .... QSL ? (1355Z)
(Return to R/S – 1355z)

Courtesy JPL

M95 O XSV, XSV70, XSV85

M95 Morse Logs

Transmission on 5555kHz on 10 Nov would seem to indicate that XSV, XSV70 XSV85, & the 05 transmission are all related and therefore should all be logged as M95. Also included as M95, (previously thought to be M89), are the transmissions with the call QV5B. The reason for including QV5B is that some time ago, while listening to the beginning of M95, while the operator was in voice, the QV5B round slip could clearly be heard in the background so must be related.

4225	2313z	27 Dec	V 7NPE (x3) DE QV5B (x2) (IP - Cont'd)	(Remote tuner Hong Kong)	JPL	SUN
	1230z	28 Dec	V 7NPE (x3) DE QV5B (x2) (IP - Cont'd)	(Remote tuner Hong Kong)	JPL	MON
	1241z	31 Dec	V 7NPE (x3) DE QV5B (x2) (IP - Cont'd)	(Remote tuner Hong Kong)	JPL	THU
5500	1702z	13 Dec	V 7NPE (x3) DE QV5B (x2) (IP - Cont'd)	(Remote tuner Hong Kong)	JPL	SUN
	1508z	14 Dec	V 7NPE (x3) DE QV5B (x2) (IP - Cont'd)	(Remote tuner Hong Kong)	JPL	MO

5555	2351z	10 Nov	**BNGC DE XSV** (No msg logged) (Remote tuner Hong Kong)	JPL	TUE	
	1123 - 1126z	09 Dec	NR 4047 CK CK CK CK CK CK 801483 EEE (Remote tuner Hong Kong)	JPL	WED	
			NR 409 CK CK 8 NKK CK . CK 80 CCK (Both msgs with errors)	JPL	WED	
7553	0943 (IP) - 1002z	04 Dec	NR 1107 CK 126 35 1204 .700 (Remote tuner Hong Kong)	JPL	FRI	
	0927 (IP) - 0949z	10 Dec	NR 1128 CK 132 35 1211 1640	JPL	THU	
			NR 65 CK 5 0000 40009 1211 1700	JPL	THU	
			NR 1130 CK 1.7 35 1211 1625	JPL	THU	
7554	1001 (IP) - 1003z	10 Dec	No msg heard - Very high noise level (Remote tuner Hong Kong)	JPL	THU	
8041	0053 (IP) - 0022z	02 Dec	NR 1020 CK 125 35 1202 0713 BT (Remote tuner Siberia)	JPL	TUE	
			NR 1021 CK 41 35 1202 0720 BT (Remote tuner Siberia)	JPL	TUE	

8073 Usual format is Initial call-up in voice USB, then to digital 4+4 mode LSB, finally, switching to CW
CW call-up is **V BNGC (x3) DE XSV85 (x2)** All logged via Remote tuner Hong Kong unless stated.

1120 - 1200z	02 Nov	NR 0938 CK 268 35 1102 1631 BT	JPL	MON	
		NR 0939 CK 32 35 1102 1637 BT	JPL	MON	
0010 - 0019z	03 Nov	NR 0941 CK 38 35 1102 07.. BT	JPL	TUE	
0001 - 0020z	05 Nov	NR 0947 CK 86 35 1105 0708 BT	JPL	THU	
1033 - 1040z*	08 Nov	NR 0954 CK 239 35 1108 1 .29 BT	JPL	SUN	
0001 - 0022z	11 Nov	NR 0961 CK 104 35 1111 0709 BT	JPL	WED	
		NR 0962 CK 28 35 1111 0720 BT	JPL	WED	
1136 - 1155z	11 Nov	NR 0963 CK 138 35 1111 1631 BT (Remote tuner Siberia)]	JPL	WED	
		NR 0964 CK 28 35 1111 1646 BT (Remote tuner Siberia)]	JPL	WED	
1131 - 1139z	12 Nov	NR 0967 CK 218 35 1112 1630 BT	JPL	THU	
1137 - 1142z	13 Nov	NR 0969 CK 187 35 1113 1603 BT	JPL	FRI	
0009 - 0051z	13 Nov	NR 0970 CK 108 35 1114 0709 BT	JPL	FRI	
0003 - 0006z	15 Nov	NR 097 . CK . 0 35 1115 07.2 BT (Remote tuner Siberia)	JPL	SUN	
0001 - 0011z	16 Nov	NR 0974 CK 94 35 1116 0654 BT	JPL	MON	
1144 - 1156z	17 Nov	NR 0977 CK 252 35 1117 15 .9 BT	JPL	TUE	
1130 - 1200z	19 Nov	NR 0981 CK 271 35 1119 1701 BT	JPL	THU	
1136 - 1139z	19 Nov	NR 0983 CK 122 35 1120 1653 BT	JPL	FRI	
0001 - 0008z	22 Nov	NR 0986 CK 106 35 1222 0702 BT	JPL	SUN	
1129 - 1216z	23 Nov	NR 0989 CK 297 35 1123 1646 BT	JPL	MON	
		NR 0990 CK 48 35 1123 1649 BT	JPL	MON	
0001 - 0021z	25 Nov	NR 0995 CK 125 35 1125 0726 BT	JPL	WED	
		NR 0996 CK 52 35 1125 0729 BT	JPL	WED	
1129 - 1139z	25 Nov	NR 0997 CK 222 35 1125 1621 BT	JPL	WED	
0001 - 0052z	26 Nov	NR 0999 CK 108 35 1126 0704 BT	JPL	THU	
		NR 1000 CK 44 35 1126 0716 BT	JPL	THU	

*Note: Sked 30 minutes later than usual. Checked 0001z sked, but N/H. Possibly sked was also 30 minutes later.

8073	1131 - 1205z	01 Dec	NR 1018 CK 316 35 1201 1603 BT	JPL	MON
			NR 1019 CK 38 35 1201 1606 BT	JPL	MON
	1129 - 1151z	03 Dec	NR 1026 CK 28 35 1203 1629 BT (Remote tuner Siberia)	JPL	THU
			NR 1027 CK 253 35 1203 1630 BT (Remote tuner Siberia)	JPL	THU
	0006 - 0013z	04 Dec	NR 1028 CK 99 35 1204 0715 BT	JPL	FRI
	0001 - 0023z	06 Dec	NR 1036 CK 136 35 1206 07*UA* BT	JPL	SUN
			NR 1037 CK 36 35 1206 0726 BT	JPL	SUN
	0001 - 0032z	07 Dec	NR 1040 CK 105 35 1207 0715 BT	JPL	MON
			NR 1041 CK 36 35 1207 0717 BT	JPL	MON
	1130 - 1200z	08 Dec	NR 1046 CK 169 35 1208 1553 BT	JPL	TUE
			NR 1047 CK 3*U* 35 1208 1557 BT	JPL	TUE
	0001 - 0021z	09 Dec	NR 1048 CK 111 35 1209 0704 BT	JPL	WED
			NR 1049 CK 42 35 1209 0708 BT	JPL	WED
	1130 - 1151z	09 Dec	NR 1050 CK 168 35 1209 1558 BT	JPL	WED
			NR 1051 CK 21 35 1209 1601 BT	JPL	WED
	1130 - 1144z	10 Dec	NR 1053 CK 268 35 1210 1609 BT	JPL	THU
	0015 (IP) - 0023z		NR 1054 CK 111 35 1211 0712 BT	JPL	THU
	1129 - 1144z	15 Dec	NR 1074 CK 270 35 1215 1610 BT	JPL	TUE
	0001 - 0039z	16 Dec	NR 1078 CK 113 35 1216 0711 BT	JPL	WED
			NR 1079 CK 52 35 1216 0714 BT	JPL	WED
			NR 1080 CK 45 35 1216 0710 BT (First time I've logged XSV85 sending 3 msgs!)	JPL	WED
	1138 - 1147z	16 Dec	No msgs logged (Unable to monitor any long - Still IP - 1147z)	JPL	WED
	1136 - 1224z	18 Dec	NR 1095 CK 48 35 1218 1642 BT	JPL	FRI
			NR 1096 CK 358 35 1218 1652 BT	JPL	FRI
	0002 - 0039z	28 Dec	NR 1123 CK 129 35 1228 0709 BT	JPL	MON
			NR 1124 CK 32 35 1228 0730 BT	JPL	MON
	0011 - 0022z	31 Dec	NR 1136 CK 48 35 1231 0709 BT	JPL	THU

Note: Total messages for XSV85 for 2015 will be 1137 or 1138. Should start at zero 01 Jan 16.

8110	0128z	28 Dec	V 7NPE (x3) DE QV5B (x2) (IP - Cont'd)	JPL	MON

M95 8073kHz 0001z 16 Nov 2015

Initial call-up in voice USB 0001z Male operator
Chinese digital 4+4 QPSK 75/3000 LSB (0001z)
V BNGC (x3) DE XSV85 (x2)
Switched to CW - Cont'd – Hand sent - 0004z

HR MSG GA (0005z)
NR 0974 CK 94 35 1116 0654 BT
TA6 3U6 3AN TAU 773 357 373 4T4 NN3 435
3DT TTU 4DT 4D6 TA7 773 TAD 773 356 4A7
NN3 445 3DU 4DT 4D6 TAN 773 TUT 773 TU3
773 356 4T7 NN3 434 3DT TTA N34 TTA ND4
TT5 4DT 4D6 TUA 773 TUU 773 35U 4A7 NN3

434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU4
773 TU5 773 35U 4A7 NN3 435 466 3DT TTU
4DT 4D6 TU6 773 TU7 773 35U 4A7 NN3 445
3DU 4DT 4D6 TUN N34 T33 773 356 4T4 NN3
445 3DU 4DT 4D6 AR
MSG AGN (0010z)
NR 0974 CK 94 35 1116 0654 BT
TA6 3U6 3AN TAU 773

(Cont'd repeat message – 0011z)

Courtesy JPL

M95 8073kHz 1129z 23 Nov 2015

Initial call-up in voice USB 1129z Male operator
Chinese digital 4+4 QPSK 75/3000 LSB (1130z)
V BNGC (x3) DE XSV85 (x2)
Switched to CW - Cont'd – Hand sent - 1139z

HR MSGS GA PSE CY (1140z)
NR 09 CK 29 EEEEE
NR 0989 CK 19 EEEEEEE
NR 0989 CK 297 35 1123 1646 BT BT
TE .. 3AN 3U7 TAU 773 TA7 773 356 (Cont'd – 1142z)
AR AR (1156z)
AGN AGN
NR 0989 CK 297 35 1123 1646 BT (1157z)
TU3 3.3AN 3U7 TAU 773 TA7 773 356 (Cont'd – 1157z)
AR (1214z)
7G GA
NR 0989 CK 297 EEEEEEE
BT EEEEE
NR 0990 CK 8 4333EEEE
NR 0990 CK 48 35 EEEEE
NR 0990 CK 48 35 12 EEEEEEE
NR 0990 CK 48 35 1123 1649 BT
TAA N5U TU3 N53 TAD 47T TTA 746 7T5 TT3
(Cont'd – 1216z)

Courtesy JPL

Marker Beacons (MX MXI)

3168.5	2106z	08 Dec	MX CW Beacon "L"	AB	TUE
3335	1806z	08 Dec	MX CW Beacon "V"	AB	TUE
	2207z	18 Dec	MX CW Beacon "V"	BR	FRI
3594.7	0321z	20 Nov	MXI CW Beacon "D" Sevastopol	BR	FRI
3593.8	2221z	03 Dec	MXI CW Beacon "P" Kaliningrad	BR	THU
3593.9	2232z	03 Dec	MXI CW Beacon "S" Sevoromorsk	BR	THU
3594	2208z	23 Dec	MXI CW Beacon "C" Moscow	BR	WED
3658	2110z	07 Dec	MX CW Beacon "V " //3335//3658//5055.5 kHz	AB	MON
	2210z	18 Dec	MX CW Beacon "V"	BR	FRI
4557.7	2215z	18 Dec	MXI CW Beacon "D" Sevastopol	BR	FRI
4557.9	0245z	28 Dec	MXI CW Beacon "S" Sevoromorsk	BR	MON
5055.5	2110z	07 Dec	MX CW Beacon "V" //3335//3658//5055.5 kHz	AB	MON
5153.7	0325z	20 Nov	MXI CW Beacon "D" Sevastopol	BR	FRI
5153.8	1734z	29 Dec	MXI CW Beacon "P" Kaliningrad	BR	TUE
5154	2241z	03 Dec	MXI CW Beacon "C" Moscow	BR	THU
5156.8	0257z	28 Dec	MX CW Beacon "L" (Fast)	BR	MON
7508.7	1534z	21 Nov	MXI CW Beacon "D" Sevastopol	BR	SAT
8494.7	0607z	20 Dec	MXI CW Beacon "D" Sevastopol	BR	SUN
8494.8	1532z	21 Nov	MXI CW Beacon "P"	BR	SAT
8494.9	1530z	21 Nov	MXI CW Beacon "S" Sevoromorsk	BR	SAT
8497.8	1529z	21Nov	MX CW Beacon "L" St Petersburg	BR	SAT
10871.7	1526z	21 Nov	MXI CW Beacon "D" Sevastopol	BR	SAT
10871.9	1527z	21 Nov	MXI CW Beacon "S" Sevoromorsk	BR	SAT
10872	1527z	21 Nov	MXI CW Beacon "C" Moscow	BR	SAT
12044	1239z	23 Dec	MX CW Beacon "C"	AB	WED
13527.7	1524z	21 Nov	MXI CW Beacon "D" Sevastopol	BR	SAT
13527.9	1524z	21 Nov	MXI CW Beacon "S" Sevoromorsk	BR	SAT

13528	1524z		21 Nov	MXI	CW	Beacon	"C"	Moscow	BR	SAT
16331.7	1522z		21 Nov	MXI	CW	Beacon	"D"	Sevastopol	BR	SAT
16331.9	1522z		21 Nov	MXI	CW	Beacon	"S"	Sevoromorsk	BR	SAT
16332.0	1522z		21 Nov	MXI	CW	Beacon	"C"	Moscow	BR	SAT

Oddities

4524kHz Marker

4524	(Continuous)	23 Nov	With strong signal in Germany since 22 Nov (sometimes with breaks)	Jochen	MON
	0307z	20 Dec	Active with intermittent tone Good	BR	SUN

5292kHz Marker

5292	2140z	29 Dec	'D' Channel Marker With Dash of 'D' shortened	BR	TUE

S28 'The Buzzer'

A parallel transmission on 6998kHz appeared in addition to the regular 4625kHz channel during October. Ary (AB) tells us it first appeared on 15 October & although not always evident, due to propagation, is still active on this freq & can often be heard in the UK if you listen at the right times.

We have received a number of reports of the two transmissions:-

4625//6998	(Continuous)	02 Nov		E.SMITH	MON
	1710z	02 Nov	Strong signal 4625kHz. 6998kHz strong - slightly weaker than 4625kHz	AB	MON
	2050z	22 Nov	Strong signal 4625kHz. 6998kHz Strong -slightly weaker than 4625kHz	GH	SUN
	(Continuous)	22 Nov	Stronger signal on 4625kHz	Jochen	SUN
	2020z	23 Nov	Strong signal 4625kHz. 6998kHz much quieter	GH	MON
4625	2000z	24 Nov	Active again on 4625kHz USB. Nothing on 6998kHz. Good signal	GH	TUE

Message Logs (from Schorschi)

6998	1235z	26 Oct	[MDZhB MDZhB ... priyom]	Weak	Schorschi	MON
	1415z	26 Oct	[MDZhB MDZhB 86 581 WEYYOGENEIk 65 30 10 38 priyom]	Fair	Schorschi	MON
	1540z	28 Oct	[MDZhB MDZhB 63 926 LEFOChIMIJ 52 26 80 89 MDZhB MDZhB 63 926 LEFOChIMIJ 52 26 80 89 priyom]			MON
	1550z	28 Oct	[MDZhB MDZhB 02 336 NESchOWKA 83 02 51 91 MDZhB MDZhB 02 336 NESchOWKA 83 02 51 91 priyom]			MON
	1234z	01 Nov	[MDZhB MDZhB 76 567 BERILI? ?? … priyom]	Weak	Schorschi	SUN
	1236z	01 Nov	[MDZhB MDZhB 94 ?7 ScERIJ 37 24 ?5 ?8 … priyom]	Weak	Schorschi	SUN
	1421z	16 Nov	[MDZhB MDZhB 10 527 BEY?ERDIE 41 05 61 19 MDZhB MDZhB 10 527 BEY?ERDIE 41 05 61 19 priyom]			MON
	1227z	29 Nov	[MDZhB … priyom]	Weak	Schorschi	SUN
4625	1431z	13 Dec	[MDZhB MDZhB 47 700 AD??TA?IJ 07 53 90 30 MDZhB MDZhB 47 700 AD??TA?IJ 07 53 90 30 priyom]			SUN
	1542z	13 Dec	[MDZhB MDZhB 42 484 UDOBNYeKr 64 61 81 01 MDZhB MDZhB 42 484 UDOBNYeKr 64 61 81 01 priyom]			SUN

S30 'The Pip'

3756	2220z	03 Dec	'Pip' marker (Night freq) USB		BR	THU
3756	1841z	08 Dec	[Dlja SchZhPM … kak sluschna kak schluschna priyom]	Strong. YL Voice	Schorschi	TUE
5448	0557z	20 Dec	'Pip' Marker (Day freq) USB		BR	SUN

S32 'Squeaky Wheel'

3828	2215z	03 Dec	Marker tone Three short data burst in synch with tones every 22 - 23 sec		BR	THU
3828	1727z	26 Nov	[Dlja! Rojil 26 Rojil 26 ... priyom]	Strong	Schorschi	THU
3828	1916z	06 Dec	[… kak slyschna kak slyschna? priyom]	Strong	Schorschi	SUN

Contributors: AB, AnonUS, BR, E.SMITH, GH, HFD, JkC, JPL, Jochen, RNGB, Schorschi, *Thank you all for your logs.*

Voice Stations:

E06 November/December 2015 log:

First/Third Thursday of month 2030z 4836kHz

05/11 '321' 728 20
14259 22676 32782 32782 76723 89409 12215 74326 64070 90235
38085 59543 12319 74238 36664 12256 18841 73311 98089 12250
728 20 00000
03/12 '321' 569 20 14259 ... 12250 569 20 00000] 2036z Old message repeat

Friday following First / Third Thursday 2130z 4760kHz

06/11 The E06 man just (2130Z) on 4760 as German Fräulein G06 with "Vier Sieben Zwo". - Hans-Friedrich
'472' 728 20 14259……12250 728 20 00000] 2137z (same old message but G06 not E06)
04/12 '472' 613 20 14259……12250 728 20 00000] 2136z

First /Third Thursday (repeats Friday) 0600z 18285kHz 0700z 20140kHz

05/11 & 19/11 '507' 398 124 73949 76918 59819 44444 60820 86673 06210 59276 46666 44633 18076 21023 27941 15950 10603 19546 80744 84710 97177 61491
11915 28152 54195 54891 66861 74566 04334 94263 98820 68329 35469 23940 29224 90503 97418 90546 53871 08440 43710 20585
74587 52823 10557 84052 61058 45595 50219 30030 72530 27195 60961 05181 94054 56551 80767 91098 66979 82271 37018 21443
18359 08452 69312 64790 18982 03559 67620 84150 24696 25818 92957 09081 80726 63532 72759 81335 93663 13794 88162 59982
00821 48001 95354 96937 91634 37636 48205 18843 60813 38729 14344 76228 97901 58457 01892 45903 42967 52303 39017 97495
63078 25220 73517 60103 29280 35243 84603 49969 98742 22973 24079 45134 31765 15377 29106 18001 98342 77349 73733 61743
53966 09455 51388 71499 398 124 00000

E06: Stutter 44444 in the 4th group of the message. This also occurred for this ID on 01/11/12 (NL 74, p. 36). Although the text of the messages does not match, both messages are 124 groups long, and DKs are similar. Coincidence? I'm not big on coincidences. Thanks JkC

0600z 14575kHz 0700z 17420kHz

03/12 & 17/12 '923' 487 105 18230 87950 58099 68079 96603 69561 97200 30430 00685 42135 73537 42641 30278 12381 34111 81970 57977 49783 33935 36459
63800 28539 89476 90858 58603 13342 51331 08761 88435 49954 00819 34344 37058 46495 00202 62192 68773 56400 51195 48619
78794 98967 41475 62929 43307 78442 83852 02061 86434 87580 77814 17045 06277 06611 48120 24720 27230 33556 40130 03131
70751 06832 76563 94066 61775 06071 05364 61159 12963 42108 93377 76982 53964 72061 45505 37603 97895 00450 54041 28000
62206 52280 07868 86804 86123 29052 16209 43797 11882 83598 26612 28589 21891 74725 41864 73939 49059 87561 65518 62134
02451 30577 30717 87870 75450 487 1054 00000] 0721z

Other transmissions:

13367kHz	1505z	02/11 '759 '320 61 26393.....22675 320 61 00000] 1519z	JkC	MON See transcript
16287kHz	1605z	02/11 '759' 320 61 26393.....22675 320 61 00000] 1619z Repeated next day. Used 16293 for 1605z sending	JkC	MON

02/11 **1505z 13367kHz 1605z 16287kHz**
'759' 320 61 26393 57939 61149 84989 70115 85248 32888 78141 00637 24064 70019 39132 82545 19863 87605 56625 00939 81986 26656 82228
21640 53501 47213 14667 05825 50345 81300 83269 21213 99569 00421 04218 17044 55946 77293 07979 55000 52339 46517 61367
13280 75320 93845 32681 05999 33627 28765 73332 85113 36529 20061 14423 17050 45725 99053 01701 51230 86715 60211 17333
22675 320 61 00000

02/11 **1800z 5930kHz 1830z 4496kHz**
'910' 834 57 86952 13790 14704 39068 43041 79601 01058 20640 50894 69253 09841 32745 97320 48125 46293 25736 27536 40689 79179 03065
59832 97432 16142 54034 74395 20163 41205 59738 07490 93293 64956 16542 04836 40560 27480 13750 79348 28349 49596 70679
73202 10758 45105 84218 14137 47919 24920 30809 51529 94370 69148 45157 13517 73619 39635 83545 48245
834 57 00000

Following day 1830z repeat after having tuned up on 4496khz then moved to 4022khz for message sending.

30/11 **1800kHz 6792kHz 1830z 4496kHz**
'910' 245 67 97681 63306 64183 89115 25323 33148 76556 91696 66302 00989 43264 26735 68815 49281 58975 54562 44455 60678 35367 00635
30832 49862 54027 88780 01549 32190 03432 94853 78232 02592 67198 56737 24306 23167 55790 01635 25174 42899 98874 76581
84540 97946 40502 93113 91506 65934 04311 22040 38177 72682 20941 99242 92424 74816 34834 28462 55529 66702 32629 91973
59363 85119 60309 05131 82816 10138 21325 245 67 00000

07/12 '910' 873 61 23123 22400 89905 22979 90925 92691 82403 14020 05566 46560 72588 56547 13235 45129 91826 11183 10961 18132 86816 76528
92322 11275 50122 10602 98350 59470 80107 99231 03286 34387 12443 82374 89891 39762 90392 74271 94004 52894 66051 38397
23008 35771 49726 03125 77919 64264 49655 29053 33785 48825 69243 63934 58050 45123 53998 46135 71620 78062 05375 42566
82271 873 61 00000] 1815z JkC MON

14/12 '910' 452 66 89741 60598 36201 79912 47499 58235 39235 22361 61259 60307 44368 63970 59470 54440 91652 89644 64875 20437 85548 23913
86228 07617 75366 01872 16755 45845 04158 82407 44028 13692 43257 89647 00969 12151 54652 93569 12634 17377 48378 65708
18509 10847 27113 70896 74982 10414 35173 80981 67570 50669 54086 21448 87987 86062 11935 86890 55065 15212 98663 86271
84882 49843 04516 03905 39404 76797 452 66 00000

1800kHz 5930kHz 1830kHz 4022kHz

02/12	'910' 245 67 97681.....21325 245 67 00000] 1846z QSA4 QRM1 QSB1	JkC	WED Repeat of 30/11/15
09/12	'910' 873 61 23123.....82271 873 61 00000] 1815z QSA3 QRM1 QSB1	JkC	WED Repeat of 07/12/15
16/12	'910' 452 66 89741.....76797 452 66 00000] 1816z QSA4 QRM1 QSB1	JkC	WED Repeat of 14/12/16 Moved down 5kHz

Thanks: RNGB, Malc, JkC, HFD

PoSW noted the following:

First + Third Thursdays in the Month 2030 UTC - purely nominal- start:-
19-Nov-15:- 4,836 kHz, started about one minute before the half-hour as is often the case with these schedules, call "321", DK/GC "569 569 20 20", the 5Fs used on many previous occasions, "14259 22676 32782 32782..... ".

3-Dec-15:- 4,836 kHz, started at 2028 UTC, "321" and "569 569 20 20" again.

Friday Schedule Following First + Third Thursdays in the Month:-
6-Nov-15:- 4,760 kHz, something a bit unusual this evening, came up with the G06 YL *German* language voice. Presumably an error on someone's part unless this has significance for the intended recipients. Calling "Vier sieben zwo" - that'll be "472", then, I think this has happened on one or possibly two occasions in the past. DK/GC "728 728 20 20", the 5Fs the ever popular, "14259 22676 32782..... ", S9 signal.

20-Nov-15:- 4,760 kHz, started well before the half hour but at least came up with the E06 English voice this evening, "472" , decode key "569 569", group count "20 20", 5Fs same as those heard in German last time.

4-Dec-15:- 4,760 kHz, started just over two minutes before the half-hour, call "613 613 20 20" and the 5Fs, "14259 22676..... ".

First + Third Thursdays in the Month 0600 (?) + 0700 UTC Schedule:-
3-Dec-15:- 0706 UTC, 17,420 kHz, transmission in progress, S8, ended before 0722 UTC with, "487 487 105 105 00000".

4-Dec-15, Friday:- 0700 UTC, 17,420 kHz, the expected repeat on the following day, call "923". Much weaker than on Thursday, S3 to S4 at best. Also had a tune around after 0600Z searching for the first sending but nothing found.

E07

PoSW writes, Continues to follow predictable schedules, low levels of audio continues to make for difficult copy at times. As expected moved by one hour in November so as to appear at the same local time as in the summer months.

Sunday + Wednesday Schedule, 1800 UTC Start:-
1-Nov-15, Sunday:- 1800 UTC, 8,153 kHz, "184 184 184 000", S9 with better than usual audio.
1820 UTC, 6,853 kHz, second sending, over S9.

4-Nov-15, Wednesday:- 1800 UTC, 8,153 kHz, "184 184 184 000", over S9, audio low but readable.

8-Nov-15, Sunday:- 1800 UTC, 8,153 kHz, "184 184 184 1", DK/GC "244 61" (?), deep QSB at the end of the call-up routine.
1820 UTC, 6,853 kHz, second sending, weak signal down in the noise, unreadable.
1840 UTC, 5,453 kHz, third sending, weak signal with low audio, difficult copy.

15-Nov-15, Sunday:- 1800 UTC, 8,153 kHz, "184 184 184 000", S9 with good audio.
1820 UTC, 6,853 kHz, second sending, much weaker, S6 to S7 at best.

18-Nov-15, Wednesday:- 1800 UTC, 8,153 kHz, "184 184 184 000", S9, low audio.

22-Nov-15, Sunday:- 1800 UTC, 8,153 kHz, "184 184 184 000", S9 with better than usual audio.
1820 UTC, 6,853 kHz, second sender, weaker signal, S7.

29-Nov-15, Sunday:- 1820 UTC, 6,853 kHz, second sending of a "full message", the 1800Z sending on 8,153 was too weak to copy, "184 184 184 1", DK/GC "880 164" x 2, a longer than usual message, total transmission time 19 minutes. S9 carrier, audio low but readable.
1840 UTC, 5,453 kHz, third sending, peaking S9 with deep QSB and low audio.

2-Dec-15, Wednesday:- 1800 UTC, 7,464 kHz, moving lower in frequency for December, "485 485 485 1", low audio and a broadcast station on 7,465 making further copy a problem. Carrier went off at 1819Z so presumably the same long message as on Sunday.
1820 UTC, 5,864 kHz, second sending, again unreadable due to low audio and a BC station 1kHz higher.
1840 UTC, 4,564 kHz, third sending, Over S9 with deep fading, again low audio making copy difficult.

Monday + Wednesday Schedule, 2000 UTC Start:-
2-Nov-15, Monday:- 2000 UTC, 7,724 kHz, "798 798 798 000", S9 carrier, audio low but readable.
2020 UTC, 6,924 kHz, second sending, also with distinctly low audio.

4-Nov-15, Wednesday:- 2000 UTC, 7,724 kHz, and 2020 UTC, 6,924 kHz, "798 798 798 000".

11-Nov-15, Wednesday:- 2000 UTC, 7,724 kHz, very weak signal, unreadable, only detectable by using SSB mode and adjusting for a beat note with the only just discernible carrier - which went off just before 2002:30s UTC, so "No Message" again.
2020 UTC, 6,924 kHz, eight hundred lower and a *much* stronger signal, "798 798 798 000", peaking S9 although with deep QSB.

23-Nov-15, Monday:- 2000 UTC, 7,724 kHz, still an extremely weak signal, carrier off just before 2002:30s.
2020 UTC, 6,924 kHz, in complete contrast an S9 signal with reasonable audio, "798 798 798 000".

2-Dec-15, Wednesday:- 2000 UTC, 7,478 kHz, should be the first sending of this schedule in the month of December, very weak signal, unreadable, carrier went off before 2002:30s UTC.
2020 UTC, 6,778 kHz, second sending stronger, audio low, "472 472 472 000".

Thursday Schedule, 2110 UTC Start:-
5-Nov-15:- 2110 UTC, 6,777 kHz, weak signal, difficult copy, carrier went off just before 2112:30s. So "no message".
2130 UTC, 5,449 kHz, "744 744 744 000", much better copy, slight interference from the SSB station formerly known as RAF VOLMET on the HF side.

12-Nov-15:- 2110 UTC, 6,777 kHz, weak signal and low audio, unreadable.
2130 UTC, 5,449 kHz, "744 744 744 000", S9 carrier, audio low.

26-Nov-15:- 2110 UTC, 6,777 kHz, S9 for a change although audio low, "744 744 744 000".
2130 UTC, 5,449 kHz, second sending, over S9.

3-Dec-15:- 2110 UTC, 6,777 kHz, very low audio, strong "XJT" on frequency, unreadable, carrier went off just before 2112:30s UTC.
2130 UTC, 5,449 kHz, "744 744 744 000", carrier over S9, audio low but readable.

Onto other's logs, with repition:

Sunday/Wednesday

November 2015

1800z	**8153kHz**	**1820z**	**6853kHz**	**1840z**	**5453kHz**	
01/11	184 000					Strong
04/11	184 000					Strong
11/11	184 1 244 61 66300 ... 61530 000					Weak

184 1 244 61
66300 19595 09926 32820 19194 66074 94234 01750 62699 48760
73258 62471 68287 29515 96148 39333 93786 87937 87.92 75458
47474 07262 11838 52752 66210 37737 18100 04510 51705 40695
13193 29659 08856 91723 50461 07837 31230 22092 12965 67262
04413 77870 65219 05627 36192 73304 63954 43641 17838 37276
55444 38106 93496 83607 34033 86413 11204 06435 02298 95761
61530
000 000 *Courtesy JkC*

18/11	184 000					Strong
25/11	184 1 880 164 45645 ... 73128 000 000					Weak

Very weak and unworkable in some UK areas

184 1 880 164
45645 26273 92246 44834 02015 86886 01186 46859 20989 68025
66248 15065 62290 20300 08147 48320 93815 27602 55531 13475
02256 37540 26633 58099 06596 04526 79390 29531 77106 18686
82344 43629 24709 50729 75874 89680 90807 55382 05540 66749
49719 91699 88070 74564 10309 49430 87254 44948 86687 87530
32510 68234 50271 01131 97143 98562 82486 23394 04127 36985
50506 65114 67785 72993 00179 .1669 51093 83418 79662 41452
68909 71206 41426 58667 88217 97245 15725 24436 32806 87815
54535 64834 91327 09060 41172 72407 58059 45239 76286 69146
85227 82290 93157 91433 29157 68712 00391 92685 32910 79138
22606 96819 34593 09983 94210 25999 26613 00009 39513 94177
49372 02408 60375 85138 07005 74748 94546 93084 20765 48963
69919 89589 24612 50413 91066 08563 53876 65753 28844 65751
31661 39037 46448 35699 86186 46364 24847 17270 31269 28303
53511 60291 92989 18350 66225 26591 06911 90921 65734 07823
83104 33936 18552 87518 22109 03893 07104 99723 16818 78494
75181 40769 31381 73128
000 000 Courtesy JkC

29/11	184 1 unworkable					Weak

December 2015

1800z	**7464kHz**	**1820z**	**5864kHz**	**1840z**	**4564kHz**	
02/12	485 1 ...	[Repeat of Monday 30/11]				Weak, unworkable
09/12	485 000					Very weak
13/12	485 000		[1800z open carrier, no modulation]			Fair
16/12	485 000		[1800z Carrier only, no discernible audio]			Weak
20/12	Carrier only					
27/12	485 000					Fair

Monday/Wednesday

2000z	**7724kHz**	**2020z**	**6924kHz**	**2040z**	**5824kHz**	
02/11	798 000					Fair
04/11	798 000					Fair
11/11	798 000		[2000z NRH]			Fair
18/11	798 000					Strong
23/11	798 000					Weak

25/11 798 000 Weak

30/11 798 000 Fair

December 2015

2000z 7478kHz 2020z 6778kHz 2040z 5278kHz

02/12 472 000 [2000z NRH] Weak

07/12 Weak carrier only, Unworkable

14/12 472 1 136 48 02638 ... 54764 000 000 Weak to Fair

472 1 136 48
02638 44184 09070 28224 68121 74097 96092 45462 50908 78253
69540 06420 01233 87982 37571 61371 55293 18839 88018 86670
26960 84694 50567 93769 70972 92689 12001 12067 74224 38254
98480 85943 53077 13109 86864 96117 12166 33239 87093 56687
98371 37213 66347 46663 90096 01543 28149 54764
000 000 *Courtesy JkC*

16/12 472 1 ... 48 (rest unworkable) [2000/20z Carrier only, no discernible audio] Very weak

21/12 472 1 300 72 70032 ... 3?4500 [2000/2020z Carrier only] QSB5

Wednesday/Saturday

November 2015

0700z 10112kHz 0720z 11112kHz 0740z 12112kHz

11/11 111 1 126 103 61108 ... 14591 000 000

111 1 126 103
61108 50645 29725 63751 15766 65141 59625 08447 20688 77038
77971 22893 57999 37879 84482 25691 30816 41812 98069 21695
20490 52202 22108 18890 10001 57847 00603 77206 19885 85239
94335 90465 75446 29173 12288 18748 74888 54339 16152 01214
56083 81814 81799 20565 84513 20919 85431 69308 23509 39034
25281 28973 25993 00090 12789 90045 87164 86159 41112 73041
23786 26985 51506 09653 71180 80923 94430 08514 77709 18131
62642 22272 64234 54207 38849 37665 37323 30282 51463 75268
37641 77791 41328 41371 11662 04936 94616 87185 44019 47610
97552 20758 02129 42730 95444 38463 71946 38571 55100 68575
49953 81441 14591 000 000 *Courtesy ES*

14/11 111 1 126 103 61108 ... 14591 000 000

18/11 111 1 394 55 76631 ... 17774 000 000 Fair/Strong

111 1 394 55
76631 55477 04291 16373 41359 98167 10491 91520 39427 40691
02195 02722 97432 83388 01494 50373 31657 48584 73189 28176
52521 18612 01181 23153 77356 65438 30303 81709 17333 44327
93469 05625 19654 70635 54510 40008 11058 15406 60732 84828
76469 79568 51268 89248 43320 94424 69266 47117 30083 72543
09650 42088 57329 03401 17774
000 000 *Courtesy Edd*

21/11 111 1 394 55 76631 ... 17774 000 000

25/11 111 1 394 55 76631 ... 17774 000 000

28/11 111 1 394 55 76631 ... 17774 000 000

Thursday

November 2015

2110z 6777kHz 2130z 5449kHz 2150z 4483kHz

05/11 744 000 [2110zXJTQRM5] Fair

12/11 744 000 [2110z Strong carrier, no discernible audio] Fair

19/11 Null Message, carrier only Unworkable

26/11 744 000 [2110z carrier only] Fair

December 2015

03/12 744 000 [2100z NRH] Weak

10/12 Carrier only Weak

E07a

Wednesday

November 2015

2100z	**5877kHz**	**2120z**	**5277kHz**	**2120z**	**4577kHz**	
04/11	825 1 19389 5649 65 06592 ... 17521 000 000					Very strong
11/11	825 000					Strong
18/11	825 000					Very strong
25/11	825 1 17673 7104 79 79147 ... 38555 000 000					Extremely strong

825 1 17673 7104 79
79147 59964 58987 53690 66696 05914 18988 02130 60145 43701
21169 21772 56157 94707 52649 78677 20313 68694 03074 12107
90527 41891 64739 54089 01390 15888 84576 83008 94136 53568
09288 85616 92142 36205 42387 68832 79900 12633 82157 99708
13212 37435 17957 86050 52475 01786 63250 54642 41392 54775
43674 42795 53992 03074 95028 54103 39311 14537 07400 76697
83539 68259 53865 12999 79020 64277 26068 83465 45879 38421
13174 22309 74631 33848 90685 18941 65307 14549 38555
000 000 *Courtesy JkC*

December 2015

02/11	825 1 17673 7104 79 79147 ... 38555 000 000		Very strong
09/12	825 000	[2100z weak, unworkable]	Strong
16/12	825 1 11602 7516 71 98360 ... 51548 000 000		Weak

825 1 11602 7516 71
98360 44321 13357 62360 40994 97666 33293 56631 90386 02090
56541 66317 02232 89219 05211 42148 85050 58363 89049 47279
21198 29798 00026 44611 33725 66957 49167 42950 21025 88845
38189 82153 01492 93310 41248 27626 55989 60691 02885 02582
40073 12080 41148 30166 83425 54079 45044 11745 99963 87520
57585 53124 62780 39189 55555 46458 06156 60216 35844 42867
95580 30093 97233 47133 79419 94757 18841 44974 43180 58168
51548
000 000 *Courtesy JkC*

23/12	825 000		Very Strong
30/12	825 000		Strong

Thursday

November 2015

0530z	**5111kHz**	**0550z**	**5811kHz**	**0610z**	**6911kHz**	
05/11	189 1 19389 5649 65 06592 ... 17521 000 000					
12/11	189 000					Very strong
19/11	189 000					Very strong
26/11	189 1 17673 7104 79 79147 ... 38555 000 000					Extremely strong

December 2015

03/11	189 1 17673 7104 79 79147 ... 38555 000 000		Extremely strong
10/12	189 000		Very strong
17/12	189 1 11602 7516 71 98360 ... 51548 000 000		Very strong
24/12	189 000		Very strong
31/12	189 000		Very strong

Friday

November 2015

1610z	**8138kHz**	**1630z**	**7538kHz**	**1650z**	**6838kHz**	
06/11	158 000					Weak
13/11	158 1 67460 6072 49 81141 ... 46996 000 000					Very strong

20/11	158 000	Strong
27/11	158 000	Very strong

December 2015

1610z	**5887kHz**	**1630z**	**5387kHz**	**1650z**	**6838kHz**	
04/12	830 000					Strong
11/12	830 1 17077 8484 83 46613 ... 25229 000 000					Fair

830 1 17077 8484 83
46613 47949 59339 45768 01505 74000 24017 01635 11732 27244
95532 99301 88752 44902 79005 77960 62218 74908 77530 77965
56738 75564 39421 66624 12591 20591 69684 62485 18501 43780
21834 64430 17216 86486 29968 44343 14435 74601 34035 94607
17947 80848 58921 80041 71722 19027 59321 31058 38566 24346
50498 36492 40082 98873 07805 10448 86445 34039 76799 86939
86318 87241 31695 87372 65308 83011 07322 08365 70328 45273
43224 59529 20043 52266 70156 11461 35813 58564 38455 22477
71797 76717 25229
000 000 *Courtesy JkC*

18/12	830 000	Strong
25/12	830 000	Very strong

Saturday

November 2015

0900z	**11553kHz**	**0920z**	**12153kHz**	**0940z**	**13553kHz**	
07/11	R3 Blackout, 0900z NRH, 0920z weak 515 000					Weak
14/11	515 1 67460 6072 49 81141 ... 46996 000 000					Very strong
21/11	515 000					Strong
28/11	515 000					Strong

December 2015

0900z	**11121kHz**	**0920z**	**12221kHz**	**0940z**	**13421kHz**	
05/12	124 000					Fair
11/12	124 1 17077 8484 83 46613 ... 25229 000 000					Fair
19/12	124 000					Very strong
26/12	124 000					Weak

PoSW's E07 a intercepts:

Saturday Schedule, 0900 UTC Start:-
14-Nov-15:- 0900 UTC, 11,553 kHz, "515 515 515 1 67460" for a full message this morning, DK/GC "6072 49" x 2, strong signal, S9 for most of the time.
0920 UTC, 12,153 kHz, second sending, also S9.
0940 UTC, 13,553 kHz, third sending even stronger, over S9 at times.

21-Nov-15:- 0900 UTC, 11,553 kHz, S7, and 0920 UTC, 12,153 kHz, peaking S9, "515 515 515 000".

28-Nov-15:- 0900 UTC, 11,553 kHz, "515 515 515 000", S7.
0920 UTC, 12,153 kHz, second sending, peaking S9.

5-Dec-15:- 0900 UTC, 11,121 kHz, "124 124 124 000", strong signal, over S9 at times.
0920 UTC, 12,221 kHz, second sending, slightly weaker.

12-Dec-15:- 0900 UTC, 11,121 kHz, a "full message", "124 124 124 1 17077", DK/GC "8484 83" x 2, S7.
0920 UTC, 12,221 kHz, second sending, slightly weaker, S6.
0940 UTC, 13,421 kHz, third sending, also S6.

Wednesday Schedule, 2100 UTC Start:-
11-Nov-15:- 2100 UTC, 5,877 kHz, "825 825 825 000", S9+ SSB signal.
2120 UTC, 5,277 kHz, second sending, also S9+.

18-Nov-15:- 2100 UTC, 5,877 kHz, and 2120 UTC, 5,277 kHz, both S9+, "825 825 825 000".

2-Dec-15:- 2100 UTC, 5,877 kHz, a "full message" this evening, "825 825 825 1 17673", DK/GC "7104 79" x 2. Much weaker than on past occasions, an indicated S6 at best.

2120 UTC, 5,277 kHz, second sending, stronger signal peaking over S9.
2140 UTC, 4,577 kHz, third sending, the strongest, S9+.

E11 log Nov/Dec

4505kHz	1605z	08/11 [232/00] Out 1608z QSA3 QRM1 QSB1	JkC	SUN
	1605z	10/11 [232/00] Out 1608z QSA4 QRM1 QSB1	JkC , RNGB	TUE
	1605z	15/11 [232/00] Out 1608z S9	Malc	SUN
	1605z	24/11 [232/00]	RNGB	TUE
	1605z	28/11 [232/00] Out 1608z S9	Malc	SUN
	1605z	01/12 [232/00]	RNGB	TUE
	1605z	08/12 [232/00] Out 1608z S8	Malc	TUE
	1605z	10/12 [232/00] S9	Brixmis	THU
	1605z	13/12 [232/00] Out 1608z QSA4 QRM1 QSB1	JkC	SUN
	1605z	29/12 [232/00] Out 1608z QSA3 QRM1 QSB1	JkC	TUE
5082kHz	1730z	12/11 [416/00] Out 1730z S7	Malc	THU
	0450z	16/11 [416/00] Out 0453z	Ed Smith	MON
	1730z	19/11 [416/00] Out 1540z QSA4 QRM2 QSB2	JkC	THU
	0450z	23/11 [416/00] Out 0458z	Ed Smith	MON
	0450z	30/11 [416/00] Out 0452z	Ed Smith	MON
	1730z	03/12 [416/00]	Malc	THU
	1730z	17/12 [416/00] Out 1733z S7	Malc	THU
	1730z	24/12 [416/00]	RNGB	THU
5409kHz	1530z	05/11 [262/00] Out 1533z S6	Malc	THU
	1530z	03/12 [262/00]	Brixmis, Malc	THU
	1530z	10/12 [262/00] Out 1533z S9	Malc	THU
5779kHz	0315z	04/11 [253/00] Out 0318z QSA3 QRM1 QSB1	JkC	WED
	0315z	05/11 [253/00] Very strong	PLondon	THU
	0315z	18/11 [253/00] Out 0318z Fair, QSB3	PLondon	WED
	0315z	19/11 [253/00] Out 0318z	Ed Smith	THU
	0315z	26/11 [253/00] Out 0318z Very strong	PLondon	THU
	0315z	03/11 [253/00] Out 0318z Very strong	PLondon	THU
	0315z	17/12 [253/00] Very strong	PLondon	THU
6304kHz	2000z	13/11 [576/00] Fair	RNGB	FRI
	2000z	20/11 [576/00] Out 2003z QSA3 QRM1 QSB1	JkC	FRI
	2000z	04/12 [576/00] Out2003z QSA4 QRM1 QSB1	JkC	FRI
	2000z	18/12 [576/00] Out 2003z S2	Malc	FRI
7840kHz	0645z	05/11 [517/00] Out 0648z	Ed Smith	THU
	0645z	12/11 [517/00] Out 0648z QSA4 QRM1 QSB1	JkC	THU
	0645z	17/11 [517/00]	Ed Smith	TUE
	0645z	19/11 [517/00] Out 0648z	Ed Smith	THU
	0645z	03/12 [517/00] Out 0648z	Ed Smith	THU
7984kHz	1205z	23/12 [469/00] Out 1208z S2	Malc	WED
	1205z	29/12 [469/00] Fair	RNGB	TUE
9443kHz	1705z	04/11 [392/00] Out 1708z S7	Malc, JkC	WED
	1705z	07/11 [392/00] Weak	RNGB	SAT
	1705z	25/11 [392/00] Out 1708z S1	Malc	WED
	1705z	02/12 [392/00] Out 1708z QSA4 QRM2 QSB1	JkC	WED
	1705z	05/12 [392/00] Out 1708z S3	Malc, Ed Smith	SAT
	1705z	09/12 [392/00] Out 1708z S2	Malc	WED
	1705z	12/12 [392/00] Out 1705z S2	Malc	SAT
	1705z	23/12 [392/00]	RNGB	WED
	1705z	26/12 [392/00] Out 1708z S9+10	Malc	SAT
9446kHz	0830z	06/11 [649/00] Good	RNGB	FRI
	0900z	09/11 [534/00] Out 0903z S5	Malc	MON
	0900z	11/11 [534/00] Out 0903z S5	Malc	WED
	0830z	16/11 [649/00]	Ed Smith	MON
	0900z	16/11 [534/00]	Ed Smith	MON
	0900z	25/11 [534/00] Out 0903z S4	Malc	WED
	0830z	27/11 [649/00] Good	RNGB	THU
	0830z	30/11 [649/00] Strong	RNGB	MON
	0900z	30/11 [534/00] Good	RNGB	MON
	0900z	02/12 [534/00] Out 0903z	Ed Smith	WED
	0900z	07/12 [534/00] Fair	RNGB	MON
	0830z	14/12 [649/00] Out 0833z S3	Malc	MON
	0900z	14/12 [534/00] Out 0903z S2	Malc	MON
	0900z	16/12 [534/00] Out 0903z S3	Malc	WED
	0830z	18/12 [649/00] Out 0833z S7	Malc	FRI
	0830z	21/12 [649/00] Good	RNGB	MON
	0900z	21/12 [534/00] Good, some QRM	RNGB	MON
	0900z	23/12 [534/00] Out 0903z S2	Malc	WED
	0830z	28/12 [649/00] Good	RNGB	MON
9950kHz	0930z	04/11 [270/00]	RNGB	WED

	0930z	11/11 [270/00] Out 0933z	Ed Smith	WED
	0930z	12/11 [270/00] Out 0933z S3	Malc, RNGB	THU
	0930z	25/11 [270/00] Out 0933z S4	Malc	WED
	0930z	26/11 [270/00] Good	RNGB	THU
	0930z	02/12 [270/00] Out 0933z	Ed Smith	WED
	0930z	03/12 [270/00] Good	RNGB	THU
	0930z	10/12 [270/00] Out 0933z S4	Malc	THU
	0930z	16/12 [270/00] Out 0933z S4	Malc	WED
	0930z	17/12 [270/00] Out 0933z S3	Malc	THU
	0930z	23/12 [270/00] Out 0933z S3	Malc	WED
10125kHz	0820z	02/11 [438/00] Out 0823z S5	Malc	MON
	0820z	05/11 [438/00]	RNGB	THU
	0820z	16/11 [438/00]	Ed Smith	MON
	0820z	26/11 [438/00] Good	RNGB	THU
	0820z	30/11 [438/00] Good	RNGB	MON
	0820z	10/12 [438/00] Out 0823z S5	Malc	THU
10213kHz	0745z	02/11 [262/00] Out 0748z S5	Malc	MON
	0745z	09/11 [262/00] Out 0748z S5	Malc	MON
	0745z	23/11 [262/00]	Brixmis	MON
	0745z	30/11 [262/00]	RNGB, Malc	MON
10429kHz	0805z	04/11 [311/00] Out 0808z	Ed Smith, Malc	WED
	0805z	08/11 [311/00] Out 0808z S5	Malc, Ed Smith	SUN
	0805z	11/11 [311/00] Out 0808z S6	Malc, RNGB	WED
	0805z	15/11 [311/00]	RNGB	SUN
	0805z	25/11 [311/00] Out 0808z S5	Malc	WED
	0805z	28/11 [311/00] Out 0808z S4	Malc	SUN
	0805z	06/12 [311/00] Out 0808z	Ed Smith	SUN
	0805z	16/12 [311/00] Out 0808z S7	Malc	WED
	0805z	23/12 [311/00] Out 0808z S5	Malc	WED
	0805z	27/12 [311/00] Out 0808z S4	Malc	SUN
10448kHz	1625z	04/11 [972/00]	Brixmis, Malc	WED
	1625z	08/11 [972/00] Out 1628z QSA4 QRM1 QSB1	JkC	MON
	1625z	11/11 [972/00] Out 1628z S7	Malc	WED
	1625z	15/11 [972/00] Out 1628z S9	Malc, Gary H	SUN
	1625z	18/11 [972/00] Out 1628z QSA2 QRM1 QSB1	JkC	WED
	1625z	22/11 [972/00]	Brixmis	SUN
	1625z	02/12 [972/00]	Gary H, JkC	WED
	1625z	13/12 [972/00] Out 1628z QSA3 QRM1 QSB2	JkC	SUN
	1625z	16/12 [972/00] Out 1628z S2	Malc	WED
	1625z	30/12 [972/00] Out 1628z QSA2 QRM1 QSB1	JkC	WED
10800kHz	0710z	03/11 [633/00] Out 0713z S6	Malc, RNGB	TUE
	0710z	13/11 [633/00] Out 0713z	Ed Smith	FRI
	0710z	24/11 [633/00]	RNGB	TUE
	0710z	08/12 [633/00] Out 0713z S4	Malc	TUE
	0710z	22/12 [633/00] Out 0713z S2	Malc	TUE
11100kHz	1205z	03/11 [469/00] Out 1208z S9	Malc	TUE
	1205z	04/11 [469/00]	Malc, JkC	WED
	1205z	10/11 [469/00] Out 1208z S9	Malc, JkC	TUE
	1205z	11/11 [469/00] Out 1208z S5	Malc	WED
	1205z	17/11 [469/00]	Ed Smith	TUE
	1205z	01/12 [469/00] Out 1208z	Ed Smith	TUE
	1205z	02/12 [469/00]	JkC, Ed Smith	WED
11107kHz	2005z	05/12 [363/00] Out 2008z S2	Malc, Ed Smith	SAT
12153kHz	1045z	10/11 [576/00] Good	RNGB	TUE
	1045z	17/11 [576/00]	Ed Smith	TUE
	1045z	01/12 [576/00] Fair	RNGB	TUE
	1045z	22/12 [576/00] Strong	RNGB	TUE
	1045z	29/12 [576/00] Good	RNGB	TUE
12924kHz	0710z	05/11 [491/00]	RNGB	THU
	0710z	12/11 [491/00] Out 0713z QSA3 QRM2 QSB1	JkC	THU
	0710z	19/11 [491/00]	Ed Smith	THU
	0710z	21/11 [491/00]	Brixmis	SAT
	0710z	03/12 [491/00]	RNGB	THU
13046kHz	0600z	02/11 [181/00]	JkC	MON
	0600z	06/11 [181/00] Out 0603z QSA4 QRM1 QSB1	JkC	FRI
	0600z	13/11 [181/00] Out 0603z	Ed Smith	FRI
	0600z	16/11 [181/00]	Ed Smith	MON
	0600z	20/11 [181/00] Out 0603z	Ed Smith	FRI
	0600z	30/11 [181/00] Out 0603z	Ed Smith	MON
14666kHz	1345z	10/11 [911/00]	Malc	TUE
	1345z	17/11 [911/00] Out 1348z QSA4 QRM1 QSB1	JkC, Ed Smith	TUE
	1345z	21/11 [911/00]	HFD	SAT

	1345z	24/11 [911/00]	Gary H	TUE
	1345z	08/12 [911/00] Out 1348z S5	Malc	TUE
	1345z	12/12 [911/00] Out 1348z S9	Malc	SAT
	1345z	23/12 [911/00]	Gary H	TUE
	1345z	26/12 [911/00] Out 1348z S6	Malc	SAT
15632kHz	1540z	01/11 [228/00] Out 1343z QSA3 QRM1 QSB1	JkC	SUN
	1540z	09/11 [228/00] Out 1543z S2	Malc	MON
	1540z	15/11 [228/00] Out 1543z S3	Malc	SUN
	1540z	16/11 [228/00]	Gary H	MON
	1540z	23/11 [228/00] Out 1543z QSA2 QRM1 QSB1	JkC	MON
	1540z	07/12 [228/00] Out 1543z QSA3 QRM2 QSB1	JkC	MON
	1540z	12/12 [228/00] Out 1543z S2	Malc	SUN
16112kHz	0745z	03/11 [335/00] Out 0748z S9	Malc	TUE
	0730z	08/11 [352/00]	Ed Smith	SUN
	0745z	17/11 [335/00] Weak	RNGB	TUE
	0730z	20/11 [352/00] Out 0733z	Ed Smith	FRI
	0745z	23/11 [335/00] Very weak	Brixmis	TUE
	0745z	26/11 [335/00] Out 0748z S2	Malc	THU
	0745z	01/12 [335/00] Weak	RNGB	TUE
	0730z	04/12 [352/00] Out 0733z	Ed Smith	FRI
	0730z	06/12 [352/00] Out 0733z	Ed Smith	SUN
	0745z	08/12 [335/00] Out 0748z S2	Malc	TUE
	0745z	17/12 [335/00] Out 0748z S2	Malc	THU
18030kHz	1300z	03/11 [133/00] Out 1303z S7 QRM Russian Mil	Malc,	TUE
	1300z	04/11 [133/00]	Malc, JkC	WED
	1300z	17/11 [133/00] Out 1303z QSA2 QRM3 QSB1	JkC	TUE
	1300z	24/11 [133/00]	Malc	TUE
	1300z	25/11 [133/00] Strong	RNGB	WED
	1300z	01/12 [133/00] Fair	RNGB	TUE
	1300z	02/12 [133/00]	JkC	WED
	1300z	08/12 [133/00] Out 1303z S2	Malc	TUE
	1300z	22/12 [133/00] Out 1303z S7	Malc	TUE
	1300z	23/12 [133/00] Out 1303z S4	Malc	WED
	1300z	30/12 [133/00]	Gary H	WED

E11a log Nov/Dec

4505kHz	1605z	17/11 [232/37 56064 68000 92913 82084 82447 09755 85726.....80964 95329] Out 1615z	JkC	TUE
	1605z	22/12 [235/33 29589 15432 27214 22227 46638 33006 14282……26071 05855] Out 1615z S9	Malc, RNGB	TUE
	1605z	27/12 [235/33 29589……etc] Repeat of Tuesday	Malc	SUN
5082kHz	0450z	02/11 [416/37 52739 50031 86215 69877 27802 56576 34975……72816 10612]	JkC	MON
	1730z	05/11 [416/37 41629…..etc] Repeat of Monday	Ary	THU
	1730z	10/12 [416/00…….@1732z 413/38 74654……00809] Out 1740z S7	Malc	THU
5409kHz	1530z	19/11 [262/36 78833.....26258] Out 1540z QSA4 QRM1 QSB1 Repeat of 16/11/15	JkC	THU
	1530z	17/12 [26?/38 63200……..52779] Out 1540z S9+10	Malc	THU
5779kHz	0315z	24/12[253/31 02818 ... 65774] Out 0323z Very strong	PLondon	THU
6304kHz	2000z	27/11 [571/36 03360……41791] Out 2010z S7	Malc	FRI
	2000z	11/12 [574/36 92135 14197 58310 16042 40120 51474 87426 89609…..14137 45508]	JkC, Malc	FRI
7840kHz	0645z	24/11 [517/33 72494 37261 ..... 33369 79473]	Ed Smith	TUE
8544kHz	0925z	16/11 [121?? / 22 34444 11023 07529 26484 64322 51345 14416 25493……17408 88678] Good	RNGB	MON
9443kHz	1705z	11/11 [390/33 59142 55071 87474 60839 29717 93464 61835……15153 62559] Out 1714z S9	JkC, Malc	WED
	1705z	16/12 [390/38 47020……40101] Out 1715z S3	Malc	WED
	1705z	19/12 [390/38 47020……etc] S7 Repeat of Wednesday	Malc	SAT
9446kHz	0900z	04/11 [534/35 82806 72115 ..... 12250 07850] Out 0909z	Ed Smith	WED
	0830z	09/11 [649/35 36069 06947 29283 70087 43865 42886 55822……18974 19509] Good	RNGB, Malc	MON
	0830z	13/11 [649/35 36069……etc] Repeat of Monday	Malc	FRI
	0830z	07/12 [643/39 46558 37165 08374 12085 84540 06442 33928 98554…….09549 09100] Good	RNGB	MON
	0830z	11/12 [643/39 46558…..etc] Repeat of Monday	Malc	FRI
	0900z	28/12 [534/31 24991 30932 27484 19208 n16978 68187 57358 84448……29294 01374] Fair	RNGB	MON
9950kHz	0930z	18/11 [276/32 28293 95914 914306 15847 26399 59312 89130 03854.....82801 10996] Out 0939z	Ed Smith	WED
	0930z	30/12 [275/32 81892 71495 39630 67455 36305 32453 38614 95868……91593 87312] Good	RNGB	WED
10125kHz	0820z	09/11 [430/37 87587 87323 77681 10309 32021 06451 78535……56069 41728] Out 0830z	RNGB	MON
	0820z	12/11 [430/37 87587……etc] Repeat of Monday	JkC, Malc	THU
	0820z	03/12 [436/38 86939……..82964]	Malc	THU
	0820z	07/12 [436/38 86939 95930 27437 15097 43810 69503 28021……22538 82964] Strong	RNGB	MON
10213kHz	0745z	16/11 [262/36 78833 68748 51691 36285 55472 13120 33545 02746……14404 26258] Good	RNGB, Ed Smith	MON
	0745z	14/12 [261/38 63200……52779] Out 0755z S5	Malc	MON

10429kHz	0805z	18/11 [315/31 86770 46140 37690 01973 04746 96922 37807 38050.....15847 65396] Out 0814z	Ed Smith	WED
	0805z	09/12 [315/34 50346……27019]	Malc	WED
	0805z	12/12 [315/24 50346…..etc] Repeat of Wednesday S7	Malc	SUN
10448kHz	1625z	25/11 [978/36 69618 45270 58743 03355 14397 96814 75474.....89825] Out 1635z	JkC, Malc	WED
	1625z	29/11 [978/36 69618…..etc] Repeat of Wednesday	Malc	SUN
	1625z	23/12 [972/32 71990……24253] Out 1634z S8	Malc	WED
	1625z	27/12 [972/32 71990…..etc] S9 Repeat of Wednesday	Malc	SUN
10800kHz	0710z	17/11 [633/34 99507 41350 50302 16951 21039 79078 55685……09014 46820] Very weak	RNGB, Ed Smith	TUE
	0710z	20/11 [633/34 99507…..etc] Repeat of Tuesday	Ed Smith	FRI
	0710z	01/12 [631/39 88815 54112 90238 70968 049233 31777 14181 19596……19419 38510] Out 0721z	RNGB	TUE
11100kHz	1205z	24/11 [461/33 48968 97675 76605 96713 95951 73151 28944.....60769 12654] Out 1214z	Ed Smith	TUE
	1205z	25/11 [461/33 48968…..etc] Repeat of Tuesday	RNGB	WED
	1205z	08/12 [465/36 42985 52090 07945 38017 45802 93127 61109 73165……75721 99199]	JkC, Malc	TUE
12153kHz	1045z	24/11 [571/36 03360 04667 51152 08872 88330 36910 82754 56224……66581 41791] Good	RNGB	TUE
	1045z	08/12 [574/36 92135……..45508]	Malc	TUE
13046kHz	0600z	23/11 [181/37 98957 72023 ..... 26585 58546] Out 0610z	Ed Smith	MON
	0600z	04/12 [185/31 09672 05126 29890 78021 18916 43169 92648 12550.....91053 27136] Out 0609z	Ed Smith	FRI
	0600z	07/12 [185/31 09672…..etc] Repeat of Friday	Ary	MON
14666kHz	1345z	03/11 [910/34 71000 45596 80229 70834 18446 77874 87622.....19398 26741] Out 1355z	JkC	TUE
	1345z	07/11 [910/34 71000 ... etc] Repeat of Tuesday	JkC	SAT
	1345z	01/12 [912/34 17006 96384 68907 22526 79060 58388 44718 ....06159 37264] Weak signal	JkC, Malc, Brixmis	TUE
	1345z	05/12 [912/34 17006…..etc] Repeat of Tuesday	Malc	SAT
15632kHz	1540z	02/11 [225/38 33907 25461 09807 46941 15180 37907 70658.....79166 49297] Out 1550z	JkC, Malc	MON
	1540z	08/11 [225/38 33907……etc] Repeat of Monday	JkC, Malc	SUN
16112kHz	0745z	12/11 [335/30 28732 07476 65307 89922 68031 41260 45727 87877……37051 95250]	JkC, Malc	THU
	0745z	15/11 [354/36 98155 65995 23611 72704 75407 61674 45877 87007……69334 28422]	RNGB	SUN
	0745z	27/12 [353/38 01918 54866 40845 78903 23530 86712 0712183930.....83333 72675] Out 0740z	JkC	SUN
18030kHz	1300z	11/11 [138/34 73778 45591 29755 85448 44876 72929 03066……59078 27551]	RNGB, Malc	WED
	1300z	16/12 [136/33 50686……06700] Out 1309z S6 QRM9	Malc	WED

Credits: RNGB, Malc, Ed Smith, Ary, JkC

E17z

Thursday

November 2015

0800z 11170kHz 0810z 9820kHz

05/11	674 980 5 36260 ... 31226 980 5 00000	Very weak
12/11	674 980 5 36260 51634 85734 51830 31226 980 5 00000	Weak
26/11	674 935 8 37391 37446 86535 89203 33244 39054 35843 37259 935 8 00000	Weak

December 2015

03/12	674 802 5 39394 35082 42571 33785 37331 802 5 00000	Weak
10/12	674 802 5 39394 35083 42571 33785 37331 802 5 00000	Weak
17/12	674	Unworkable

Additional transmission

10635kHz1541z	16/11[I/P ... 274 (R3m) 863 50 92342 ...]1545z QSA4 QRM1 QSB1	JkC	MON

E17z 10635kHz 1541z 16/11
274 863 50
92342 19208 89048 91458 96180 15024 00178 98458 54014 92142
22025 (Tx stopped during repeat of GR11, carrier remained - 1544z)
(Carrier off - 1545z)
(NFH - 1555z) Courtesy JkC

E25

6140kHz1038z	05/12 OM live counting 1-10 a couple of times, AM, QSA2,	MG	SAT

Testing ……..

9400 kHz 1015z 12/12 Tone i.p. over BC, 1020z music "An Execution Of A Dead Man" by Omar Khairat, 1033z tone, QRT 1035z, AM QSA5 MG SAT

then

9600 kHz 1035z 12/12 Carrier QSA5, QRT 1036z, AM QSA5, MG SAT
9600 kHz 1105z 12/12 Tone, carrier, song with audio breaks QRT 1115z, AM QSA5, MG SAT

YouTube link for the song by Omar Khairat - An Execution Of A Dead Man

https://www.youtube.com/watch?v=THwiaO2wXCA

A fitting soundtrack for the supposed purposes of the stations we monitor ;-)

E25a

9450kHz 1215z	28/11[830 5] 1221z "Entra Omri", YL, ended with "Message EOM EOT", AM QSA5,	MG	SAT
9450kHz1215z	16/12[830 7] 1222z Msg Msg Msg"windows-dong-sound" EoM EoT 1 Weak	Schorschi	WED

G06

PoSW sets the mood for Go6 activity: The expected seasonal change of frequencies, moving lower, observed in the last months of 2015:-

Second + Fourth Thursdays in the Month 1830 UTC Schedule:-
26-Nov-15:- 4,519 kHz, started about a minute and a half before the half-hour, as is often the case with this schedule, the 1830Z start time being purely nominal, same for the 1930Z Friday transmission. Calling "271", DK/GC "271 271 20 20", the Decode Key, or whatever it is, the same as the call-up this evening. 5Fs one of those messages used many times over the past couple of years or so, "14259 22676 32782 32782.....". Strong signal, well over S9, enough to over-ride local interference and an "XJT" churning away on a close frequency.

10-Dec-15:- 4,519 kHz, started over a minute before the half-hour, "271" and "271 271 20 20" again, same "14259 22676 ….. etcetera, etcetera," again.

Friday 1930 UTC Schedule Following the Second + Fourth Thursdays:-
13-Nov-15:- 4,792 kHz, started well before the half hour, call "436", signal much weaker than usual, coupled with local interference made copy difficult. DK/GC "720 720 (?) 20 20.

27-Nov-15:- 4,792 kHz, no problems here, well over S9 throughout, started about a minute and a half before 1930Z, call "436", DK/GC "271 271 20 20", same well-used message as yesterday's 1830Z sending, ends, "..... 73311 98089 12250".

11-Dec-15:- 4,792 kHz, S9 signal, "436" and "271 271 20 20" and 5Fs as on 27-Nov.

First + Second Mondays in the Month 1700 + 1800 UTC Schedule:-
2-Nov-15:- 1700 UTC, 3,728 kHz, "248 248 248 00000", peaking S9.
1800 UTC, 4,484 kHz, second sending, S9 with QSB. Same frequencies used in the first two months of 2015.

9-Nov-15:- 1700 UTC, 3,728 kHz, "248 248 248 00000". Started before the hour, in progress when tuned in a few seconds before 1700Z, stopped 1703:30s.
1800 UTC, 4,484 kHz, started 35s before the hour, second sending, over S9.

7-Dec-15:- 1702:45s UTC, tuned in late expecting to hear the call-up but was just in time to catch the DK/GC, early start then, "111 111 88 88", weak signal on a noisy frequency, into 5Fs in the slow, languid style which is a feature of this schedule.
1758 UTC, 4,484 kHz, call-up already started when tuned in two minutes before the hour, call "248", DK/GC "111 111 88 88", seems a bit contrived, "91299 96449 14155... ".

14-Dec-15:- 1658 and 45 seconds UTC, 3,728 kHz, started about a minute and a quarter before the hour, "248" and "111 111 88 88" again, S7 competing with local RF noise.
1759 UTC, call-up in progress when tuned in, 4,484 kHz, second sending with an S9 signal

Other's observations:

Monday

November 2015

1700z	**3728kHz**	**1800z**	**4484kHz**	
02/11	248 00000			Fair
09/11	248 00000			Fair

December 2015

0800z 5320kHz

07/12 329 00000 Weak

21/12 329 00000 Weak

1700z 3728kHz 1800z 4484kHz

07/11 3728kHz early start 1658z

07/11 4484kHz Test: 111 22222 6 111 22222 1754z

[4484 07-12-2015 1757 G06 USB 3 minutes early]
248 (R) 111 88
91299 96449 14155 31592 44788 28351 33228 34985 19470 39917-
23866 74435 82448 89934 23254 28127 82262 35950 63558 67337-
98494 64291 28425 61634 38223 92178 31817 47238 22177 52294-
41535 72448 36874 38227 22898 82437 17598 67939 29465 89248-
72983 96857 71786 49477 27971 42273 96229 22718 86241 16533-
52369 96544 98876 68957 49721 78276 68922 73234 28438 13144-
24622 13128 83429 76285 64321 46417 49721 56577 59848 33327
15941 45993 43635 12297 23734 24465 79267 46545 12532 84149
87365 99256 41971 25966 99383 35643 66827 62228
111 88 00000

Errors after group 10, 20, 30, 40, 50 and 60. These groups were not repeated but went right into the next group. *Courtesy AB*

December 2015

07/12 248 111 88 91299 ... 60208 111 88 00000 [1800z 2mins early] Fair
On both Tx every 10th group, up to GR60, were not repeated, running straight into the following group with no gap. Groups 70 and 80 repeated as normal.

14/12 248 111 88 91299 ... 60208 111 88 00000 [1800z 2mins early] Fair

Wednesday

November 2015

1157z 4946kHz 1300z 4051kHz

04/11 248 00000 Weak

December 2015

09/12 248 111 88 91299 ... 60208 111 88 00000 Weak

Thursday

November 2015

1300z 4460kHz

05/11 329 00000 Weak

19/11 329 00000 Weak

1830z 4519 kHz

26/11 --- 271 20 14259 … 12252 217 20 00000

271 20
14259 22676 32782 32782 76723 89429 12215 74326 64072 90235
38085 59543 12319 74238 36664 12256 18841 73311 98289 12252
271 20 00000 *Courtesy Ary*

December 2015

10/12 111 Test? Training?
10/12 271 20 14259 ... 12250 271 20 00000 Weak

Friday [was E06]

November 2015

2130z 4760kHz

06/11 472 728 20 14259 ... 12250 728 20 00000 (same old msg but G06 not E06)

1930z 4792kHz

13/11	436 720 20 45456 ... 98388000 000	New message
27/11	436 271 20 14259 ... 12252 271 20 000 000	Very strong

December 2015

11/12	436 271 20 14259 ... 17120 271 20 00000	[111 at 1916z test?]	Strong at 1928z

S06 and S06s

Before we move on to RNGB's coverage of these stations we insert PoSW's log of these stations and his observations:
The known regular S06 Russian Man schedules have, in the last two months of 2015, used the same frequencies which were employed in January and February.

Weekly Saturday 1600 or 1605 UTC Schedule:-
7-Nov-15:- 1605 UTC, 5,073 kHz, "491 491 491 00000", up to S9. This frequency used in the first months of this year, expect a 1600Z transmission to be on 6,778, plus or minus a few kHz.

14-Nov-15:- 1600 UTC, 6,778 kHz - as expected, then. "491 491 491 00000", very strong signal, well over S9 for most of the four minutes transmission time. Weaker CW station a couple of kHz lower sending well-spaced letters, may have been in an alphabet other than the Western because I am sure I heard a "four dash" Morse character several times.

21-Nov-15:- 1605 UTC, 5,073 kHz, "491 491 491 00000", strong signal, over S9.

5-Dec-15:- 1605 UTC, 5,073 kHz, "491 491 491 00000", S9.

12-Dec-15:- 1605 UTC, 5,073 kHz, "491 491 491 00000", over S9.

First + Third Saturdays in the Month 2000 + 2100 UTC Schedule:-
7-Nov-15:- 2000 UTC, 4,057 kHz, "738 738 738 00000", weak signal, difficult copy mainly due to local interference from "consumer electronics". Similar frequency used in January and February, second sending back then was inside the CW portion of the 80 metre amateur band.
2100 UTC, 3,522 kHz, second sending, weak signal, several strong amateur CW stations on close frequencies.

21-Nov-15:- 2000 UTC, 4,057 kHz, "738 738 738 00000", much stronger than on the 7th, over-riding a weaker "XJT" on the same frequency.
2100 UTC, 3,522 kHz, second sending, also much stronger than last time, S9 or over, many CW stations on close frequencies, the letters "T E S T" much in evidence, looks like a weekend contest.

5-Dec-15:- 2000 UTC, 4,057 kHz, "738 738 738 00000", swamped by the "XJT" churning away on the same frequency, very strong this evening.
2100 UTC, 3,532 kHz, second sending 10 higher than on past two occasions, clear of the strongest of the amateur CW which was closer to 3,522, looks like another 80 metre contest.

First + Third Fridays in the Month 2000 + 2100 UTC Schedule:-
6-Nov-15:- 2000 UTC, 7,897 kHz, "392 392 392 00000", weak signal with, as always, local QRM. In keeping with the other S06 schedules, this frequency used in January and February of 2015, second sending was on 5,821 kHz.
2100 UTC, 5,821 kHz so no surprises there, second sending stronger, up to S8.

20-Nov-15:- 2000 UTC, 7,897 kHz, "392 392 392 00000", much stronger signal than last time, over S9, strong enough to over-ride local interference.
2100 UTC, 5,821 kHz, second sending, S7 to S8.

4-Dec-15:- This schedule has form for moving backwards or forwards by one hour for reasons not connected with the seasonal spring / autumn changing of the clocks, and this turned out to be the case in December:- 2000 UTC, 5,831 kHz, expected it to be on 7,897, plus or minus, at this time, upon finding no trace checked out the expected frequency for 2100. "394 394 394 00000", strength S7, presumably the 7,897 kHz transmission was on at 1900 UTC.

S06s YL
A small selection of those schedules with stronger signals in the UK:-

Monday Schedule, 0900 + 0910 UTC, call "872":-
2-Nov-15:- 0900 UTC, 14,675 kHz, DK/GC "413 413 5 5", "46062 68672 97478 39685 30485", weak signal.
0910 UTC, 12,830 kHz, second sending, slightly stronger although only S4 at best.

30-Nov-15:- 0900 UTC, 14,675 kHz, "872 872 872 00000", "no message", not so common with S06s as it is with other number stations, weak signal.
0910 UTC, 12,830 kHz, must have started early, second sending in progress when tuned in about 10s before 0910, stopped just after 0913Z. Very weak signal.

7-Dec-15:- 0900 UTC, 14,675 kHz, DK/GC, "496 496 5 5", "34140 78386 91494 82963 31670", weak signal at first but came up to S5 after a couple of minutes.
0910 UTC, 12,830 kHz, second sending, weak signal, difficult copy.

Wednesday Schedule, 1000 + 1010 UTC, call "729":-
4-Nov-15:- 1000 UTC, 12,365 kHz, DK/GC "548 548 6 6", "30588 39344 37296 27478 44986 74328", over S9.
1010 UTC, 14,280 kHz, second sending inside the 20 metre amateur band, very strong S9+.

11-Nov-15:- 1000 UTC, 12,365 kHz, same DK/GC and 5Fs as on the 4th, much weaker signal, S5 at best.
1010 UTC, 14,280 kHz, second sending, on the same frequency as a QSO between an SP3 station, very strong signal, and a G station in Welwyn which I could just about hear, probably by means of a greatly attenuated ground-wave signal.

2-Dec-15:- 1000 UTC, 12,365 kHz, DK/GC "531 531 6 6", "30702 88959 89831 42097 88475 34075", over S9.
1010 UTC, 14,280 kHz, second sending, S9+.

Thursday Schedule, 0900 + 0910 UTC, call "167":-
5-Nov-15:- 0900 UTC, 12,952 kHz, DK/GC "938 938 5 5", "73990 62184 62819 04320 62718", S9+ signal.
0910 UTC, 13,565 kHz, second sending, also S9+.

12-Nov-15:- 0900 UTC, 12,952 kHz, "938 938 5 5" and 5Fs same as last week, S7.
0910 UTC, 13,565 kHz, second sending, also about S7.

19-Nov-15:- 0900 UTC, 12,952 kHz, DK/GC "925 925 8 8", "92325 36615 36491 49588 41061 83354 43309 43400", S7 to S8.
0910 UTC, 13,565 kHz, second sending, stronger signal, over S9 at times.

26-Nov-15:- 0900 UTC, 12,952 kHz, DK/GC and 5Fs same as on the 19th, S9+, very strong signal.
0910 UTC, 13,565 kHz, second sending, also S9+.

3-Dec-15:- 0900 UTC, 12,952 kHz, DK/GC "204 204 5 5", 5Fs, "37596 83663 89353 30950 37014", S9+.
0910 UTC, 13,565 kHz, S9+ again.

10-Dec-15:- 0900 UTC, 12,952 kHz, "204 204 5 5" and same 5Fs as on the 3rd, S9+.
0910 UTC, 13,565 kHz, second sending, also S9+.

Thursday Schedule, 1200 + 1210 UTC, call "425":-
3-Dec-15:- 1200 UTC, 12,155 kHz, DK/GC "817 817 6 6", "54027 93793 32567 300061 30603 48304", S7.
1210 UTC, 10,920 kHz, second sending, slightly weaker signal.

10-Dec-15:- 1200 UTC, 12,155 kHz, and 1210 UTC, 10,920 kHz, both S9+, "817 817 6 6" and same 5Fs as last week.

Friday Schedule, 0930 + 0940 UTC, call "516":-
6-Nov-15:- 0930 UTC, 11,780 kHz, DK/GC "902 902 7 7", "46062 68672 94478 39685 30485 96632 52537", S9+, very strong signal.
0940 UTC, 12,570 kHz, second sending, also S9+.

13-Nov-15:- 0940 UTC, 12,570 kHz, missed 0930Z sending, DK/GC and 5Fs same as on the 6th, S9+.

27-Nov-15:- 0930 UTC, 11,780 kHz, DK/GC "230 230 7 7", "92971 30490 46481 33987 37393 48944 30643", S9.
0940 UTC, 12,570 kHz, second sending, S9+.

4-Dec-15:- 0930 UTC, 11,780 kHz, DK/GC "402 402 7 7", "46062 68672 97478 39685 30485 96632 52537", S9.
0940 UTC, 12,570 kHz, second sending, S7 to S9.

11-Dec-15:- 0930 UTC, 11,780 kHz, and 0940 UTC, 12,570 kHz, both S9, "402 402 7 7" and 5Fs as last time.

RNGB's excellent coverage:

S06 log November

Daily Mon- Fri 0400z 15721kHz
04/11 '480' 253 60 20028 47511 64457 46064 59716 87126 00327 74047 41141 93504 86986 73668 33266 36247 71342 48969 78835 16744 73700 43248 78203 31082 21059 99284 59205 63133 31281 73955 18992 37499 96589 49434 48782 87010 39805 08163 77462 14465 41785 63778 94963 53288 63486 65181 41371 56813 11096 15940 72689 70854 17666 76214 39204 69274 39690 39384 37379 57223 92058 00574 00000] 0412z JkC WED Mojave remote

Thursdays (Repeats following day) 0830z 19875kHz 0930z 16067kHz
05/11 '824' 907 31 17283 97112 61839 68563 18618 81085 29417 51173 86045 43916 41080 42244 31251 49573 19380 43081 78512 83196 83735 94407 24584 69251 34974 67811 39689 95258 67699 96357 64318 14519 77690 907 31 00000] 0839z
12/11 '824' 516 32 51483 22348 37192 81337 13246 61424 34192 25882 91011 12094 29842 81176 80344 61229 78798 96943 87050 98875 11338 99837 95753 79863 35186 71325 03018 08180 51105 94404 94708 42524 74454 30115 516 32 00000] 0839z
26/11 '824' 156 34 60438 52789 95964 99155 77666 38006 78652 01749 67178 22097 50812 66301 34774 14610 37902 83646 27365 88843 75135 48484 86601 68751 35777 69588 43622 21420 87258 19156 09593 08543 42324 57273 41747 35344 156 34 00000] 0840z

Fridays (1st & 3rd) 2000z 7897kHz 2100z 5821kHz (frequencies may vary slightly)
06/11 '392' 00000
20/11 '392' 00000

Saturdays (1st/2nd/3rd and 4th) 1600z 6778kHz or 1605z 5073kHz
07/11 1605z '491' 00000
15/11 1605z '491' 00000
21/11 1605z '491' 00000
28/11 1600z '491' 00000

Saturdays (1st/3rd) 1900z 4057kHz 2000z 3522kHz
07/11 '738' 00000
21/11 '738' 00000

Non scheduled:
13397kHz 1500z 9194kHz 1600z
23/11 & 24/11 '387' 619 52 68588 36388 24187 71374 94193 97323 56225 82328 72626 56908 36843 26932 43327 49516 98827 48670 96552 65573 64987 89985 61485 10829 38263 11559 46387 25882 93105 17937 10492 64395 60304 50447 76325 53440 22467 33334 84129 84414 62328 84052 27118 07952 31068 23669 07173 31279 28899 48284 55653 41457 14895 47448 619 52 00000] 1513z

S06s November log:

Sunday			
1st	0630/40	13470/16515	‘524’ 00000
8th/15th			‘524’ 891 6 60583 54545 50128 99477 83574 48874
22nd/29th			‘524’ 973 6 89758 52343 79628 42432 56075 56281
Monday			
2nd/9th	0830/40	8057/8530	‘371’ 250 6 21767 53672 11834 81022 36903 41412
16th/23rd			‘371’ 406 5 09394 76911 75155 92918 97067
2nd/9th	0900/10	14675/12830	‘872’ 413 5 46062 68672 97478 39685 30485
16th/23rd			‘872’ 410 5 01405 15003 24357 60583 38229
2nd/9th	1300/10	8420/10635	‘831’ 209 5 52401 63919 92699 14600 74248
16th/23rd			‘831’ 245 6 11171 64385 82707 06123 22535 53718
Tuesday			
3rd/10th	0600/10	16145/14240	‘438’ 267 5 33367 37555 33300 91490 33701
17th/24th			‘438’ 562 7 88620 58069 71673 74537 57440 10597 23521
3rd/10th	0700/15	5250/6320	‘374’ 918 5 89499 31900 48366 36534 32140
17th/24th			‘374’ 259 6 39534 17228 15636 47891 23247 17099
3rd/10th	0730/40	7410/11537	‘427’ 530 6 46062 68672 97478 39685 30485 96632
17th/24th			‘427’ 836 5 42987 94184 47374 74154 08531
3rd/10th	0800/10	11945/13195	‘352’ 964 7 21767 53672 11834 81022 36903 41412 55678
17th/24th			‘352’ 974 6 54545 50128 99477 83574 48874 94031
3rd/10th	1000/10	6440/5660	‘893’ 460 5 05899 50387 45847 23013 89758
17th/24th			‘893’ 264 5 89758 52343 79628 42432 ?????
3rd/10th	1100/10	5035/5975	‘754’ 962 8 52899 50387 45847 23013 89758 52343 79628 42432
17th/24th			‘754’ 201 6 63729 12165 70835 63728 52619 09043
3rd/10th	1500/10	6845/9170	‘537’ 906 8 33796 13577 74526 46647 79302 53516 25616 56069
17th/24th			‘537’ 428 6 74930 51138 63518 63728 06034 63413
Wednesday			
4th/11th	0530/40	7425/9069	‘464’ 983 5 88569 89617 25757 77159 95225
18th/25th			‘464’ 297 5 63822 17354 95613 45362 83081
4th/11th	0730/40	7335/11830	‘745’ 296 8 82707 06123 22536 88280 84116 53718 78927 34694
18th/25th			‘745’ 918 6 34031 33430 37536 34906 39698 35454
14th/21st	0820/30	8417/9262	‘471’ 950 6 33796 13577 74526 46647 79302 53516
28th			‘471’ 268 5 80328 32229 37303 88934 39698
4th/11th	1000/10	12365/14280	‘729’ 548 6 30588 39344 37296 27478 44986 74328
18th/25th			‘729’ 836 5 36628 32225 30867 49980 48995
Thursday			
5th/12th (E17z)	0800/10	11170/9820	‘674’ 980 5 36260 51624 85734 51830 31226
19th/26th			‘674’ 935 8 37391 37446 86525 89203 33244 39054 35843 37259
5th/12th	0900/10	12952/13565	‘167’ 938 5 73990 62184 62819 04320 62718
19th/26th			‘167’ 925 8 92325 36615 36491 49588 41061 83354 43309 43400
5th/12th	0900/10	5765/6315	‘624’ 908 5 73632 55263 38901 52711 63782
19th/26th			‘624’ 985 7 11394 30307 31450 84498 48832 42300 37018
5th/12th	0930/40	8812/9540	‘314’ 295 6 89360 32719 02517 43728 94512 63825
19th/26th			‘314’ 957 6 31514 23800 35288 85892 44234 33666
5th/12th	1200/10	12155/10920	‘425’ 870 6 62819 52638 02633 61153 64860 09706
19th/26th			‘425’ 931 6 99351 42191 30821 33725 36771 47802
Friday			
6th/13th	0930/40	11780/12570	‘516’ 902 7 46062 68672 94478 39685 30485 96632 52537
20th/27th			‘516’ No reports
Saturday			
7th	1200/10	8680/8260	‘254’ 809 6 88785 30340 30193 33584 84446 43403

Thanks to RNGB, JkC, Ed Smith, Malc, HFD

S06 log December

Daily Mon- Fri 0400z 15721kHz
No reports

Thursdays (Repeats following day) 0830z 17435kHz 0930zkHz 14375kHz (frequencies may vary slightly)

03/12 ‘842’ 709 35 67657 62023 67693 84904 38521 85733 49121 85999 11739 80279 12861 03413 10637 25252 46696 00158 45773 25865 13776 52403 75114 32575 44479 77542 88138 80329 26419 52983 43540 95891 34792 36602 15254 46659 70227 709 35 00000

10/12 ‘842’ 501 36 59760 19462 45383 05842 05478 31382 29243 33820 25848 20699 38456 19482 84468 26988 43917 57402 29779 45245 59652 87898 89308 17879 96499 34177 99186 01008 87370 97400 23208 78517 51287 45594 41129 22312 88364 57345 501 36 00000

17/12 ‘842’ 956 37 91039 98640 34293 85383 52943 16166 08736 25563 63108 60484 33644 45877 39552 97055 88146 76128 77069 03723 55865 81474 11670 86695 73591 49552 74977 46245 28494 20284 61988 09289 89802 88044 60661 71060 85906 30875 16752 956 37 00000

24/12 ‘842’ 719 38 35887 27601 04679 74994 38235 72955 65038 72363 41126 58562 03412 88882 11730 75319 24557 74680 07390 18523 22806 65650 03748 22214 22538 29568 44052 99480 48440 61127 33094 05900 11483 55592 24217 68319 21565 15746 72825 46154 {very weak} HK remote uner

Fridays (1st & 3rd) **1900z** **7897kHz** **2000z** **5831kHz** (frequencies may vary slightly)

04/12		'392' 00000

Saturdays (1st/2nd/3rd and 4th) **1600z** **6778kHz or** **1605z** **5073kHz**

05/12	1605z	'491' 00000
19/12	1605z	'491' 00000
26/12	1605z	'491' 00000

Saturdays (1st/3rd) **1900z** **4057kHz** **2000z** **3532kHz** (frequencies may vary slightly)

05/12	'738' 00000
19/12	'738' 00000

S06s December log:

Sunday

6th/13th	0630/40	13470/16515	'524' 831 6 11171 64385 82707 06123 22536 88280
20th/27th			'524' 879 6 20534 11160 43494 37638 16070 48834

Monday

7th/14th	0830/40	8057/8530	'371' 846 5 71909 83981 24035 48115 34694
21st/28th			'371' 854 6 09394 76911 75155 92918 97067 58604
7th/14th	0900/10	14675/12830	'872' 496 5 34140 78386 91494 82963 31670
21st/28th			'872' 501 6 95051 13808 71909 83981 24035 48115
7th/14th	1300/10	8420/10635	'831' 976 5 37126 43003 40894 83332 38868
21st/28th			'831' 967 5 96111 10544 98003 68909 45279

Tuesday

1st/8th	0600/10	16145/14240	'438' 967 5 80328 32229 43306 47702 33713
15th/22nd			'438' No reports
1st/8th	0700/15	5250/6320	'374' 201 5 38034 47619 33367 37555 33300
15th/22nd			'374' 896 5 80744 86200 84706 42227 61736
1st/8th	0730/40	7410/11537	'427' 851 6 88620 58069 61732 74537 57440 10597
15th/22nd			'427' 863 5 09394 76911 75155 92918 97067
1st/8th	0800/10	11945/13195	'352' 819 6 33796 13577 74526 46647 79302 53516
15th/22nd			'352' 874 6 16070 50128 99477 24042 75956 11171
1st/8th	1000/10	6440/5660	'893' 206 5 11171 64385 82707 06123 22536
15th/22nd			'893' 247 5 36793 53038 76342 15009 34140
1st/8th	1100/10	5035/5975	'754' 261 8 46062 68672 97478 39685 30485 96632 52537 41736
15th/22nd			'754' 921 6 35621 21397 30832 87436 34539 37126
1st/8th	1500/10	6845/9170	'537' 460 8 31900 48366 35634 32840 48436 81480 30762 33400
15th/22nd			'537' 819 6 48075 30349 31283 31472 38905 40337

Wednesday

2nd/9th	0530/40	7425/9069	'464' 279 5 92325 36615 36491 49588 41061
16th.23rd			'464' No reports
2nd/9th	0820/30	8417/9262	'471' 809 5 31900 48366 36534 32840 48346
16th/23rd			'471' 529 6 33796 13577 74526 46647 79302 98835
2nd/9th	0830/40	7335/11830	'745' 201 6 44475 30322 36034 45445 44008 38453
16th/23rd			'745' 298 6 01405 15003 24357 60583 54545 92883
2nd/9th	1000/10	12365/14280	'729' 531 6 30702 88959 89831 42097 88475 34075
16th/23rd			'729' 563 8 83086 62060 83138 39760 18969 84008 83450 42868

Thursday

3rd/10th (E17z)	0800/10	11170/9820	'674' 802 5 39394 35083 42571 32785 37331
17th/24th			'674' 925 8 46399 33972 30172 93302 50111 29250 85837 32062
3rd/10th	0900/10	5765/6315	'624' 901 5 82324 36958 39423 48076 33739
17th/24th			'624' 910 5 39534 17228 15636 47897 32347
3rd/10th	0900/10	12952/13565	'167' 204 5 37596 83663 89353 30950 37014
17th/24th			'167' 245 8 88620 58069 61732 74537 57440 10597 23521 47660
3rd/10th	0930/40	8812/9540	'314' 572 6 36330 31471 33619 37137 37908 85958
17th/24th			'314' 562 7 88146 57856 98835 46186 16945 80744 86200
3rd/10th	1200/10	12155/10920	'425' 817 6 54027 93793 32567 30061 30603 48304
17th/24th			'425' 871 6 40614 77249 40678 17976 21816 41997

Friday

4th/11th	0930/40	11780/12570	'516' 402 7 46062 68672 97478 39685 30485 96632 52537
18th/25th			'516' 240 7 46062 68672 97478 39685 30485 96632 52537

Saturday

5th	1200/10	8680/8260	'254' No reports

Of note is the Friday message which was the same all month but with a different 3 figure group!
The early morning Friday transmissions appear to have ended.

Thanks to RNGB, JkC, Ed Smith, Malc, HFD

S11a log Nov/Dec

4828kHz	0455z	06/11 [321/00] КОНЕЦ 0458z QSA4 QRM1 QSB1	JkC	FRI
	0455z	10/11 [321/00] Fair	RNGB	TUE
	0455z	13/11 [321/00] КОНЕЦ 0458z	Ed Smith	FRI
5815kHz	1955z	04/11 [378/36 57425 43402 62158 37572 54198 93425 89627……61418 89721]	JkC, Malc	WED
	1955z	06/11 [378/36 57425.....89721] КОНЕЦ 2006z Repeat of 04/11/15	JkC, RNGB	FRI
	1955z	11/11 [371/00] КОНЕЦ 1958z	Ed smith	FRI
	1955z	13/11 [371/00] Good	RNGB	FRI
	1955z	18/11 [371/00] КОНЕЦ 1958z QSA2 QRM1 QSB1	JkC	FRI
	1955z	25/11 [371/00]	Malc	WED
	1955z	27/11 [371/00]	Malc	FRI
	1955z	02/12 [371/00]	JkC	WED
	1955z	11/12 [371/00] Konyetz 1955z S2	Malc	FRI
	1955z	16/12 [371/00] Konyetz1958z S7	Malc	WED
	1955z	18/12 [371/00] Out 1958z S2	Malc	FRI
	1955z	23/12 [379/35 62591……90486] Konyetz 1958z S9+20	Malc	WED
	1955z	30/12 [371/00] КОНЕЦ 1958z QSA3 QRM1 QSB1	JkC	WED
7504kHz	0915z	03/11 [484/32 Vnimanie 59888……65984]	Malc	TUE
	0915z	06/11 [484/32 59888……..65985]	Malc	FRI
	0915z	10/11 [484/00] Weak	RNGB	TUE
	0915z	13/11 [484/00] КОНЕЦ 0918z	Ed Smith	FRI
	0915z	17/11 [484/00] Weak	RNGB	TUE
	0915z	24/11 [484/00] Weak	RNGB	TUE
	0915z	01/12 [484/00] Weak	RNGB	TUE
	0915z	08/12 [484/00] Konyetz 0918z S3	Malc	TUE
	0915z	11/12 [484/00] Konyetz 0918z S4	Malc	FRI
	0915z	18/12 [484/00] Konyetz 0918z S5	Malc	FRI
	0915z	22/12 [480/36 Vniumanie 85427……82538] Konyetz 0926z S2	Malc	TUE
	0915z	29/12 [484/00]	RNGB	TUE
9200kHz	1625z	03/11 [831/00] Konyetz 1628z S6	Malc, JkC	TUE
	1625z	07/11 [831/00] КОНЕЦ 1628z QSA3 QRM1 QSB1	JkC	SAT
	1625z	10/11 [831/00] Konyetz1628z S7	Malc	TUE
	1625z	21/11 [835/33 ВНИМАНИЕ 52780 42765 61269 61506 12349 07837……46984 92969]	JkC	SAT
	1625z	01/12 [831/00] КОНЕЦ 1628z	Ed Smith, Malc	TUE
	1625z	08/12 [831/00] Konyetz 1628z S5 QSB3	Malc	TUE
	1625z	22/12 [831/00] Out 1628z S2	Malc	TUE
	1625z	29/12 [831/00] КОНЕЦ 1628z QSA2 QRM1 QSB1	JkC	TUE
9610kHz	1020z	03/11 [426/00]	Malc	TUE
	1020z	06/11 [426/00] Konyetz1023z S2	Malc	FRI
	1020z	10/11 [422/33 57216……..31392] Konyetz 1030z S4	Malc	TUE
	1020z	13/11 [422/33 57216 73739 74343 95722 80978 47390 14159……29236 31392]	RNGB	FRI
	1020z	17/11 [426/00] Weak	RNGB	TUE
	1020z	24/11 [426/00]	RNGB	TUE
	1020z	01/12 [426/00] Good	RNGB	TUE
	1020z	04/12 [426/00]	RNGB	FRI
	1020z	08/12 [426/00] Konyetz 1020z S4	Malc	TUE
	1020z	11/12 [426/00] 1023z S3	Malc	FRI
	1020z	18/12 [426/00] 1023z S5	Malc	FRI
	1020z	22/12 [421/36 82071……84003] Konyertz 1030z S3	Malc	TUE
12530kHz	1015z	05/11 [475/00] КОНЕЦ 1018z	Ed Smith	THU
	1015z	09/11 [475/00] S6	Malc	MON
	1015z	12/11 [475/00]	RNGB	THU
	1015z	16/11 [477/36 45243 27634 25588 30147 75634 11962 51854 39882……37569 60810] Fair	RNGB	MON
	1015z	23/11 [475/00]	RNGB	MON
	1015z	26/11 [475/00] КОНЕЦ 1018z S4	Malc	THU
	1015z	14/12 [475/00] S4	Malc	MON
	1015z	21/12 [475/00]	RNGB	MON
	1015z	24/12 [475/00] Fair	RNGB	THU
19099kHz	0715z	30/11 [382/00] Weak	RNGB	MON
	0715z	07/12 [381/36 20405 94057 74446 03184 69913 43092 35885 39966……45534] Weak	RNGB	MON
	0715z	21/12 [382/00] Extremely weak	RNGB	MON
	0715z	28/12 [382/00] Extremely weak	RNGB	MON

Credits: RNGB, Malc, Ed Smith, Ary, JkC

V02a

V02a continues to hang on with one appearence during the 2 month period. As always it requires LSB mode to be able to understand the numbers.

7554kHz	2000z	17/12 [A26102 30421 43752] 26102 R5 20567 78???..	Anon	THU

V07

Sunday

November 2015

0100z	**18074kHz**	**0120z**	**15874kHz**	**0140z**	**14374kHz**	
08/11	883 000					Weak
15/11	883 ??? ?? ????? ... 58107 41230 000 000					Very weak
29/11	Test tones only					Weak

December 2015

0100z	**16037kHz**	**0120z**	**14637kHz**	**0140z**	**12137kHz**	
06/12	661 1 492 73 54305 … 71220 000 000					Weak

661 661 661 1 492 73
54305 18875 48984 93012 10530
33501 82738 74914 43104 81150
48323 80034 28328 97394 10107
49303 43808 72323 53313 85970
88534 90303 91911 59803 91733
47554 82108 32239 33319 80409
08491 83135 52734 97493 45484
55745 75323 20591 29288 01899
19987 33341 58894 03823 23047
93313 91372 41802 31330 30717
93454 74541 39893 41837 80373
41028 71483 77870 39339 59012
24933 74321 22185 32518 82492
78392 99502 33113 20733 47232
11821 94131 71220 000 000
Courtesy DanAr

13/12	661 000	Very weak
20/12	661 1	Weak signal
27/12	661 000	Very weak

V21

Babbler signals continue to be weak at my location however, he was heard several times. As expected, the transmissions switched by an hour to 1400z when the clocks changed at the beginning of November. All transmissions were of the usual counting type with nothing much of note happening.
Events of note.
On 6/12 on 5637kHz he repeated 71-80 and also missed numbers in some of the other counts. He also counted to 100 which is unusual.
Both Babblers were present on Christmas Say. The operator on 5637kHz was quite erratic in the numbers he counted to.
On to the logs.

V21 6529kHz 1400z 1/11 [30 10 20 50 30 30 END] SUN	
V21 6529kHz 1400z 14/11 [In progress 40, 30 END]	SAT
V21 6529kHz 1400z 15/11 Present but not copied.	SUN
V21 6529kHz 1400z 21/11 Present but too weak to copy.	SAT
V21 5637kHz 1400z 25/11 [40, 50, 50, 40, 50, 32, 46, 40, 50, 50, 50, 60, 50, 32, 50, 50, 32, 50, 50, 26 END]	WED
V21 5637kHz 1400z 27/11 [...40, 60, 60, 30, 60, 60, 50, 60, 60, 50, 60, 60, 30, 60, 30, 40, 40, 40, 40, 40, 40, 30, 40, 40, 40.....] Found in progress, still in progress at 1430z.	FRI
V21 6529kHz 1400z 5/12 [20, 30, ??, 20, 20, 10, 10, 20, 10, 10, 30, 20, 50, 10, 10, 20, 10, 20, 10, 10....becomes too weak to copy.]	SAT
V21 5637kHz 1400z 6/12 [100, (repeats 71-80), 100 (skips 30), 44, 102, (skips 60), restarts at 16 counting to 23. END]	SUN
V21 6529kHz 1407z 12/12 [....30, 10, 10, 10, 10, 20, 30, 40, 30, 10, 20, 20, 10, 20, 10, 30, 30, 20, 60, 30, 20, 20, 30, 30, 10, 20, 40, 10, 10, 20, 20, 10, 10, 10, 20, 10, 20.....]	SAT
V21 6529kHz 1400z 20/12 Weak, several counts to 30 heard.	SUN
V21 5637kHz 1405z 20/12 [...62, 72, 4, 52 END] Found in progress, off at 1414z.	SUN
V21 6529kHz 1410z 25/12 [60, 60.....] FRI	
V21 5637kHz 1415z 25/12 [....22, 62, restarts at 15 counting to 22, 78, 38, 4, 52, 32 END]	FRI
V21 6529kHz 1400z 29/12 Started too weak to copy then 60, 60, 20 END]	TUE
V21 6529kHz 1400z 30/12 present but weak one count from 1 to 10 heard	WED
V21 5637kHz 1400z 30/12 Multiple fast counts to either 22 or 32 heard.	WED
V21 6529kHz 1400z 31/12 Present but too weak to copy.	THU

V26

7553kHz0915z 05/11/15[(IP)(Remote tuner Hong Kong)] (IP - In Chinese voice - Female - USB - 0915z - Silent - 0935z)	JPL	THU
9153kHz0946z 09/12/15[(IP)(Remote tuner Hong Kong)] (IP - In Chinese voice - Female - LSB - 0946z - //7555 LSB)	JPL	WED

7553kHz1015z 10/12/15[(IP) (Remote tuner Hong Kong)] JPL THU
(Female - Chinese - USB - Very weak)

V28

This station came to notice thanks to Token!. The description in ECL26 is thanks to his ongoing observations and logs.

V28 is active on more than one frequency in the 1330 UTC time period. I have seen up to three frequencies in use at one time, all apparently live and all with a different YL voice. Several times prior to finding the other frequencies I thought I might have heard voices in the background on the original V28 freq of 3277 kHz.

This multi channel operation was first pointed out, as far as I know, by Asian listeners.

While each of the transmitters observed so far is fairly stable in operation, the exact frequency chosen each day is variable. The "other" frequencies appear even more variable than the 3277 kHz outlet. The 3277 kHz frequency is typically just under 3277 kHz, often within 0.2 kHz of 3277 kHz (generally appearing between 3276.8 and 3277.2 kHz). The other frequencies vary wildly in daily frequency selection, with variations of several kHz common day-to-day. There is a frequency around 3045 kHz (so far 3039.17 to 3054.65 kHz seen there) and another around 3690 kHz (so far 3687.12 to 3692.33 kHz seen there).

The audio on 3277 kHz has improved greatly since the first time I heard this station.

Possibly live announcers also on 3039/3045/3690kHz [+/-10kHz] around the 1330z transmission time [+/- 10mins]

V28 logs, all YL voices:

3276.91 kHz AM 1330z 29 November 2015 (remote tuner Japan) Token SUN
3276.89 kHz AM 1330z 30 November 2015 (remote tuner Japan) Token MON
3276.91 kHz AM 1330z 01 December 2015 (remote tuner Japan) Token TUE
3276.91 kHz AM 1330z 05 December 2015 (remote tuner Japan) Token SAT

3276.88 kHz AM 1335z 06 December 2015 (remote tuner Japan) Token SUN
3276.90 kHz AM 1330z 07 December 2015 (remote tuner Japan) Token MON
3277 kHz AM 1330z 09 December 2015 (remote tuner Japan) Token WED
3689 kHz AM 1330z 09 December 2015 (remote tuner Japan) Token WED
3276.94 kHz AM 1330z 10 December 2015 (remote tuner Japan) Token THU
3691.81 kHz AM 1332z 10 December 2015 (remote tuner Japan) Token THU
3054.65 kHz AM 1330z 11 December 2015 (remote tuner Japan) Token FRI
3276.94 kHz AM 1330z 11 December 2015 (remote tuner Japan) Token FRI
3687.12 kHz AM 1330z 11 December 2015 (remote tuner Japan) Token FRI
3039.17 kHz AM 1339z 12 December 2015 (remote tuner Japan) Token SAT
3276.86 kHz AM 1330z 12 December 2015 (remote tuner Japan) Token SAT
3691.39 kHz AM 1330z 12 December 2015 (remote tuner Japan) Token SAT

3054.61 kHz AM 1335z 13 December 2015 (remote tuner Japan) Token SUN
3276.88 kHz AM 1330z 13 December 2015 (remote tuner Japan) Token SUN
3692.33 kHz AM 1330z 13 December 2015 (remote tuner Japan) Token SUN

The trend seems to be that the upper freq (around 3690 kHz) and the middle freq, 3277 kHz, both start at 1330z. the lower freq (around 3045 kHz) often starts a bit later than those two.

Message lengths are most often 8 to 10 minutes long, except on the lowest freq, those tend to be a bit shorter.

On December 8, 2015, there was no transmission I am aware of on 3277 kHz, and I did search. A South Korean listener reportedly heard transmissions on 3052 kHz and 3689 kHz that day. This was the first time I heard about other frequencies in use.

Two recordings linked here. The first is a complete version of the basic 3277 kHz message, beginning to end. The next is a transmission with background audio. I have no idea what the background audio is, but it sounded interesting to me.

Complete transmission on 3277 kHz, Dec 01, 2015, 1330z:
http://www.tokenradio.net/Radio/SharedFiles/AudTfer/V28_3277_AM_01122015_1330_JPN_rem.mp3

Transmission with background audio on 3277 kHz, Dec 05, 2015, starts 1331z:
http://www.tokenradio.net/Radio/SharedFiles/AudTfer/V28_3277_AM_05122015_1331_JPN_rem.mp3

December 2015 continued:

V28 is still active on multiple frequencies form about 1330 to about 1342 UTC daily (see note at bottom concerning no activity on Jan 01 and 02). I have seen as many as 4 frequencies active at one time, but more typically there are only 3 active at one time, with a 4th coming on air after one of the first 3 finish. All frequencies except for 3277 kHz are still extremely variable on a day to day basis.

Some transmitters used by this station have notable features.

For example the transmitter used for the approximate 3690 kHz transmission typically drifts down in frequency throughout the transmission, with the largest drift in the first minute or so of transmission. And this station often suffers from very poor audio.

The transmitter used for the approximate 3050 kHz transmission typically drifts up in frequency for the entire transmission, with the worst drift in the first couple minutes. Further, this transmitter has a stability issue, and the carrier wavers noticeably, resulting in a "warbly", or unsteady, sound to the voice.

The transmitter used on the approximate 3150 kHz transmission was very wide audio. This transmitter also often drops carrier between words or groups of words, almost as if it has a manual PTT switch and the operator unkeys sometimes.

The transmitter used for the 3277 kHz transmission appears reasonably steady and has decent audio, however it is always just a little off 3277 kHz (typically 3277 kHz +/- 0.25 kHz, most often slightly below 3277 kHz).

For all frequencies except 3277 kHz it is not unheard of for the transmitter to come on air on one frequency and the change a few kHz to another frequency. This is not drift, but rather the operator actually changing frequency. Most often it happens before audio starts, but sometimes it happens during the message. This is not common, but does happen occasionally. So far the only transmitter / frequency I have not seen do this (change frequency without leaving the air) is 3277 kHz.

An OM voice is sometimes heard during transmitter setup with test counts, but typically the messages are YL voice. Recently an OM voice has been periodically sending messages, not just test counts, on the approximate 3050 kHz or 3150 kHz transmissions.

Notice in my loggings I say "variable groups kk/yl" I have heard what appears to be 2f, 3f, and 5f groups, along with words/names. But not being a Chinese speaker I am unsure if the 2f and 3f groups are distinct groups or if they are 5f in 2/3 format. The Korean and Japanese listeners seem to be reporting 2f and 3f only, no 5f.

On January 01 and 02 no transmissions were found in the 3000 kHz to 3800 kHz range from 1330 to 1345 UTC. I do not know if this signifies anything at all, but it is possible either a frequency or time shift has taken place.

T!
Mojave Desert, California, USA

V28 logs, Dec 14 to Dec 31, 2015:

Dec 14, 2015
3047.1 kHz AM 1336z 14/12/2015 [variable groups kk/yl ends 1339] (remote tuner Japan) Token MON
3276.87 kHz AM 1330z 14/12/2015 [variable groups kk/yl ends 1339] (remote tuner Japan) Token MON
3693.83 kHz AM 1330z 14/12/2015 [variable groups kk/yl ends 1339 started on 3698.85 before changing frequency] (remote tuner Japan) Token MON

Dec 15, 2015
3063.75 kHz AM 1335z 15/12/2015 [variable groups kk/yl ends 1339] (remote tuner Japan) Token TUE
3156.8 kHz AM 1332z 15/12/2015 [variable groups kk/yl ends 1342] (remote tuner Japan) Token TUE
3276.87 kHz AM 1330z 15/12/2015 [variable groups kk/yl ends 1339] (remote tuner Japan) Token TUE
3689.0 kHz AM 1330z 15/12/2015 [variable groups kk/yl ends 1339] (remote tuner Japan) Token TUE

Dec 16, 2015
3054.65 kHz AM 1332z 16/12/2015 [variable groups kk/yl ends 1342] (remote tuner Japan) Token WED
3116.88 kHz AM 1339z 16/12/2015 [variable groups kk/yl ends 1342] (remote tuner Japan) Token WED
3276.87 kHz AM 1330z 16/12/2015 [variable groups kk/yl ends 1340] (remote tuner Japan) Token WED
3689.8 kHz AM 1330z 16/12/2015 [variable groups kk/yl ends 1339] (remote tuner Japan) Token WED

Dec 17, 2015
3048.75 kHz AM 1332z 17/12/2015 [variable groups kk/yl ends 1339] (remote tuner Japan) Token THU
3128.52 kHz AM 1330z 17/12/2015 [variable groups kk/yl ends 1336] (remote tuner Japan) Token THU
3276.96 kHz AM 1338z 17/12/2015 [variable groups kk/yl ends 1341] (remote tuner Japan) Token THU
3691.08 kHz AM 1329z 17/12/2015 [variable groups kk/yl ends 1337] (remote tuner Japan) Token THU

Dec 18, 2015
3276.85 kHz AM 1329z 18/12/2015 [variable groups kk/yl ends 1340] (remote tuner Japan) Token FRI
3691.01 kHz AM 1330z 18/12/2015 [variable groups kk/yl ends 1340] (remote tuner Japan) Token FRI
An SK listener reports 3051 kHz was active during this time, but I did not hear / see it

Dec 19, 2015
3051.76 kHz AM 1333z 19/12/015 [variable groups kk/yl ends 1340] (remote tuner Japan) Token SAT
3156.39 kHz AM 1340z 19/12/2015 [variable groups kk/yl ends 1345] (remote tuner Japan) Token SAT
3276.86 kHz AM 1330z 19/12/2015 [variable groups kk/yl ends 1340] (remote tuner Japan) Token SAT
3689.33 kHz AM 1330z 19/12/2015 [variable groups kk/yl ends 1339] (remote tuner Japan) Token SAT

Dec 20, 2015
3048.71 kHz AM 1333z 20/12/2015 [variable groups kk/yl ends 1338] (remote tuner Japan) Token SUN
3276.96 kHz AM 1340z 20/12/2015 [variable groups kk/yl ends 1342] (remote tuner Japan) Token SUN
3689.34 kHz AM 1331z 20/12/2015 [variable groups kk/yl ends 1339] (remote tuner Japan) Token SUN

Dec 21, 2015
3048.47 kHz AM 1338z 21/12/2015 [variable groups kk/yl ends 1348] (remote tuner Japan) Token MON
3156.54 kHz AM 1330z 21/12/2015 [variable groups kk/yl ends 1340] (remote tuner Japan) Token MON
3276.95 kHz AM 1330z 21/12/2015 [variable groups kk/yl ends 1340] (remote tuner Japan) Token MON
3682.2 kHz AM 1331z 21/12/2015 [variable groups kk/yl ends 1341] (remote tuner Japan) Token MON

Dec 22, 2015
3039.86 kHz AM 1332z 22/12/2015 [variable groups kk/yl ends 1341] (remote tuner Japan) Token TUE
3276.92 kHz AM 1331z 22/12/2015 [variable groups kk/yl ends 1342] (remote tuner Japan) Token TUE
3690.2 kHz AM 1331z 22/12/2015 [variable groups kk/yl ends 1341] (remote tuner Japan) Token TUE

Dec 23, 2015
3051.55 kHz AM 1331z 23/12/2015 [variable groups kk/yl ends 1336] (remote tuner Japan) Token WED
3276.96 kHz AM 1330z 23/12/2015 [variable groups kk/yl ends 1340] (remote tuner Japan) Token WED
3689.2 kHz AM 1329z 23/12/2015 [variable groups kk/yl ends 1336] (remote tuner Japan) Token WED

Dec 24, 2015
3156.46 kHz AM 1331z 24/12/2015 [variable groups kk/yl ends 1339] (remote tuner Japan) Token THU
3276.92 kHz AM 1330z 24/12/2015 [variable groups kk/yl ends 1339] (remote tuner Japan) Token THU
3690.38 kHz AM 1329z 24/12/2015 [variable groups kk/yl ends 1339] (remote tuner Japan) Token THU

Dec 25, 2015
3149.99 kHz AM 1337z 25/12/2015 [variable groups kk/OM ends 1338] (remote tuner Japan) Token FRI
3276.92 kHz AM 1330z 25/12/2015 [variable groups kk/yl ends 1339] (remote tuner Japan) Token FRI
3688.33 kHz AM 1331z 25/12/2015 [variable groups kk/yl ends 1339] (remote tuner Japan) Token FRI

Dec 26, 2015
Was not at the radio gear, did not try to RX and no idea if a transmission was sent.

Dec 27, 2015
3140.97 kHz AM 1332z 27/12/2015 [variable groups kk/OM ends 1340] (remote tuner Japan) Token SUN
3276.85 kHz AM 1335z 27/12/2015 [variable groups kk/yl ends 1340] (remote tuner Japan) Token SUN

Dec 28, 2015
3047.11 kHz AM 1331z 28/12/2015 [variable groups kk/yl ends 1338] (remote tuner Japan) Token MON
3146.26 kHz AM 1330z 28/12/2015 [variable groups kk/yl ends 1340] (remote tuner Japan) Token MON
3276.88 kHz AM 1330z 28/12/2015 [variable groups kk/yl ends 1340] (remote tuner Japan) Token MON
3688.57 kHz AM 1330z 28/12/2015 [variable groups kk/yl ends 1339] (remote tuner Japan) Token MON

Dec 29, 2015
3142.24 kHz AM 1335z 29/12/2015 [variable groups kk/OM ends 1342] (remote tuner Japan) Token TUE
3159.4 kHz AM 1332z 29/12/2015 [variable groups kk/yl ends 1340] (remote tuner Japan) Token TUE
3695.8 kHz AM 1331z 29/12/2015 [variable groups kk/yl ends 1338] (remote tuner Japan) Token TUE

Dec 30, 2015
3049.53 kHz AM 1332z 30/12/2015 [variable groups kk/yl ends 1338] (remote tuner Japan) Token WED
3141.65 kHz AM 1330z 30/12/2015 [variable groups kk/yl ends 1340] (remote tuner Japan) Token WED
3276.83 kHz AM 1330z 30/12/2015 [variable groups kk/yl ends 1340] (remote tuner Japan) Token WED

Dec 31, 2015
3063.45 kHz AM 1339z 31/12/2015 [variable groups kk/yl ends 1342, started on 3032 kHz, shifted up to 3044 kHz, then settled on 3062.45 kHz] (remote tuner Japan) Token THU
3145.73 kHz AM 1330z 31/12/2015 [variable groups kk/OM ends 1341] (remote tuner Japan) Token THU
3276.83 kHz AM 1330z 31/12/2015 [variable groups kk/yl ends 1340] (remote tuner Japan) Token THU
3690.1 kHz AM 1331z 31/12/2015 [variable groups kk/yl ends 1342] (remote tuner Japan) Token THU

X06 Mazielka (1c) logs section

Date	Day	UTC	Freq	Scale	Monitor	Comments
20151101	Sun	1318-1329	14595	452163	Peter/UK	Alert 2 (G66, good and strong) 1
20151101	Sun	1330-1341	13481	452163	Peter	2.2
20151102	Mon	0804-0806	14825	641523	Antonio/IT, Peter	Alert 4 (G5) 1 Monitored i. p.
20151102	Mon	0809-0813	17511	641523	Peter	4.2
20151102	Mon	0827-0830	18750	641523	Peter	4.3
20151102	Mon	0906-0907	12152	641523	Peter	4.4
20151102	Mon	1654-1658	10270	532614	Jim/US	I. p., G4
20151103	Tue	0853-0900	12157	165423	Peter	G12
20151103	Tue	0926-0947	15687	154263	Peter, RNGB	G7
20151103	Tue	1137-1144	17454	325614	Peter	G392
20151103	Tue	0909-0910	18206	246531	Antonio	G16
20151105	Thu	0701-0710	17468	436512	Peter, RNGB	G44
20151105	Thu	0709-0717	19511	314265	Peter	G380
20151105	Thu	1226-1242	19405	352416	Peter	G43
20151106	Fri	0631-0632	16320	241563	André/FR	G50
20151106	Fri	0923-0924	14570	324615	Peter	Fair, G2
20151106	Fri	0938-0946	18197	645321	Peter	Alert 2 (G57) 1 Very good and clear
20151106	Fri	0941-0948	18245	132456	Peter	S1, R
20151106	Fri	1002-1006	14547	645321	Peter	2.2 Weak
20151106	Fri	1011-1013	12215	361245	Peter	Weak, G53
20151106	Fri	1309-1310	14828	1--6--	Schorschi	X06b without carrier, S9(1)
20151108	Sun	1741-1743	9163	145632	Danix	G135
20151109	Mon	0919-0924	16117	463125	Peter	Alert 5 (G77) 1 Very good and clear
20151109	Mon	0926-0936	13517	463125	Peter	5.2 Weak
20151109	Mon	0941-0950	12224	463125	Peter	5.3 Weak
20151109	Mon	1007-1010	16117	463125	Peter	5.4 Very good
20151109	Mon	1012-1013	19235	463125	Peter	5.5 Good
20151109	Mon	1252	12177	364152	Peter	Fair, G73
20151111	Wed	0755-0800	14655	164253	Danix	G395 (Serdolik at 0745)
20151111	Wed	1143-1157	15878	621543	Danix	alert 2 (G102) 1
20151111	Wed	1157-1201	18660	621543	Danix	2.2
20151112	Thu	1521-1546	14812	263145	Danix	S3-8 with short breaks, G111(2)
20151112	Thu	1650-1652	9106	564213	Danix	G118
20151116	Mon	0831-0845	14377	432516	Antonio, Danix	G341
20151117	Tue	0850-0917	12157	165423	Danix,Peter	Fair to poor in UK, G151
20151117	Tue	0930-0932	18206	246531	Danix,Peter	Strong in UK, G153
20151118	Wed	1505-1509	14547	645321	Danix	Alert 2 (R) 1 Full TX
20151118	Wed	1512	9041	645321	Danix	2.2 Shortie (only 14 secs)
20151119	Thu	0845-1023	9475	246135	Schorschi, Danix,André	Alert 3 (i.p. & R) 1 strong & long

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20151119 Thu 1034      13475 246135 Schorschi   3.2 S9
20151119 Thu 1104-1145 17465 246135 Danix,
                                    EdwardSmith 3.3
20151119 Thu 1233-1255 14720 241563 Antonio     R
20151123 Mon 0930-0934 16117 463125 Antonio     Alert8 (parallel TXs, poor, G222) 1
20151123 Mon 0930-0934 16318 463125 Antonio     8.2
20151123 Mon 1024-1033 14860 542136 André       R
20151126 Thu 1515-1516 10214 263145 Schorschi   S9, G256
20151126 Thu 1625-1630  9123 564213 Schorschi   S9+20, G263
20151126 Thu 1838-1839  7705 564213 Ary/NL      I. p., G263
20151126 Thu 1844-1851  6986 361245 Danix       R
20151126 Thu 1954-1958  6986 361245 Danix       Comeback, R
20151127 Fri 1237      14827 123456 Antonio     Short X06c with OFDM before
20151127 Fri 1958-2003  4542 361245 Danix       R
20151129 Sun 0807-0809 14847 351264 Danix       Alert 2 (r) 1
20151129 Sun 0813-0819 14947 351264 Danix       2.2
20151129 Sun 1715       8153 1--6-- Schorschi   X06b before E07, S1
20151201 Tue 0752-0800 13524 125643 Antonio     I. p., G317
20151201 Tue 1341-1346 16188 325614 Danix,
                                    Antonio     G392
20151202 Wed 0724      14761 1--6-- Danix       X06b before XPA2
20151202 Wed 0922-0930 14405 256341 Antonio     I. p., G311
20151202 Wed 1107-1115 16115 215346 Peter       G25
20151202 Wed 1210-1223 16320 111222 Danix, Jim  X06b, QSA4 in the US
20151202 Wed 1500-1512 12150 256341 Danix, Jim  Alert 2 (G311) 1 QSA4 in the US
20151202 Wed 1512-1524 12208 256341 Peter       2.2 S1
20151203 Thu 1716-1720 19511 314265 Peter       Fair to good, G380
20151203 Thu 1219-1220  9041 645321 Danix       Alert 3 (R) 1
20151203 Thu 1220-1230  9354 645321 Danix       3.2
20151203 Thu 1257-1309 13940 645321 Antonio     3.3 I. p.
20151204 Fri 1007-1014 12215 361245 Schorschi   S9, G53
20151204 Fri 1020-1022 20837 645321 Schorschi   Alert 2 (G57 and S9) 1
20151204 Fri 1023-1025 18197 645321 Schorschi   2.2
20151207 Mon 0750-0756 14825 641523 Peter       Alert 2 (G5 and S1) 1
20151207 Mon 0757-0800 17511 641523 Peter       2.2
20151207 Mon 0805-0810 13452 165324 Danix       G1
20151209 Wed 1628-1634  9485 246135 Jim         I. p., fair, R
20151210 Thu 0844-0859 16324 521634 Antonio     I. p., G116
20151210 Thu 1252-1301 15676 231654 Antonio     Alert 2 (R, both monitored i. p.) 1
20151210 Thu 1321-1356  9174 231654 Antonio     2.2
20151210 Thu 1501-1514 11467 231654 Danix       Comeback, R(3)
20151211 Fri 0746      15084 123456 Schorschi   X06c with S1
20151211 Fri 0848-0900 15160 123456 Antonio     Another X06c i. p.
20151211 Fri 0903-0904 12055 123456 Antonio     Next X06c i. p.
20151211 Fri 1409      13884 1--6-- Ary         Short X06b before XPA2 (only 3x)
20151211 Fri 1536       5887 1--6-- Schorschi   X06b with S9 before E07
20151212 Sat 0939-0946 14650 215346 Danix       Alert 2 (R) 1
20151212 Sat 1025-1035 16115 215346 André       2.2
20151214 Mon 0810-0813 14871 156234 André       G68
20151214 Mon 1006-1033 12224 463125 Peter,
                                    Schorschi   Alert 3 (G77) 1 Good (UK), S9 (DE)
20151214 Mon 1033-1041 16118 463125 Peter       3.2 Good
20151214 Mon 1043-1048 13517 463125 Peter       3.3 Stronger than the others
20151214 Mon 1226-1235 15676 231654 Schorschi   I. p., S9, R
20151215 Tue 0751-0801 13524 125643 Schorschi   I. p., S9, G383
20151218 Fri 1334-1336  8180 241563 Antonio     G187
20151220 Sun 1356-1401 13538 2121-2 Schorschi   X06b with S9+20 after failed XPA2
20151220 Sun 1430-1458 14538 2121-2 Schorschi,
                                    Danix       X06b on XPA2 freq(4)
20151220 Sun 1659       7464 1--6-- Schorschi   Fair X06b before E07
20151222 Tue 1237      14538 1--6-- Schorschi   X06b before XPA2, S9 (again @ 1243)
20151223 Wed 0800-0805 18177 164253 Danix       New group, G402
```

1) Comeback: 1313-1314 with more power or another antenna

2)
* 1521:20-1522:07 UTC, 14812 kHz, 263145, sig strength: S8
* 1522:29-1529:48 UTC, 14812 kHz, 263145, sig strength: S6
* 1530:00-1546:28 UTC, 14812 kHz, 263145, sig strength: S3-5
* 1531:17-1531:38 UTC, 14812 kHz, 263145, sig strength: S7 (simultaneously with the weaker one)

3) Very strong Russian navy T600 modem on 11468 kHz during TX

4) Scale changed after a few rounds into "1--6--"

Thanks Jochen and Team, excellent report!

Polytones

XPA c

Wednesday/Saturday

November 2015

0700z	**11409kHz**	**0720z**	**13509kHz**	**0740z**	**14609kHz**	
04/11	456 1 07982 00225 10298 62017					Very strong
07/11	R3 Blackout, all slots NRH					
11/11	456 000 07413 00001 00000 10140					Strong
14/11	456 000 09017 00001 00000 10140					Extremely strong
18/11	456 1 08118 00173 32342 32030					Very strong
21/11	456 1 08118 00173 32342 32030					Very strong
25/11	456 1 09363 00183 75177 41232				[0720zQSB2/3]	Very strong
28/11	456 1 09363 00183 75177 41232					Very strong

December 2015

0700z	**7756kHz**	**0720z**	**9056kHz**	**0740z**	**10656kHz**	
02/12	706 000 03270 00001 00000 10140					Strong, noisy
05/12	706 000 07398 00001 00000 10140					Very strong
09/12	706 1 02626 00161 47505 04030					Very strong
12/12	706 1 02626 00161 45705 04030					Fair
16/12	706 000 06891 00001 00000 10140					Strong
19/12	706 000 06679 00001 00000 10140					Fair
23/12	706 1 (01293) 00206 52595 (nnnnn)					Very weak, unworkable
26/12	706 1 01293 00206 52595 10452					Very strong
30/12	706 000 02942 00001 00000 10140					Very strong

XPA e

Tuesday/Thursday

November 2015

1900z	**8123kHz**	**1920z**	**7523kHz**	**1940z**	**6823kHz**	
03/11	158 1 01114 00217 35682 52211			[1920/1940z Very weak, unworkable]		Fair, QSB3
05/11	158 1 01114 00217 35682 52211			[1920/1940z Very weak, unworkable]		Weak, QSB3/4
10/11	158 1 duration 4m26s last grp 77346					Weak, unworkable
12/11	158 1 03536 00195 74435 77346					Weak
17/11	158 1 08757 00239 09898 45237			[1900z XJTQRM4/5]		Fair, local QRM3
19/11	Message					Very weak. unworkable
24/11	158 000 06040 00001 00000 10140			[1900/1940z weak, unworkable]		Fair, QSB3
26/11	158 000 01044 00001 00000 10140			[1900z XJTQRM5 1920z Very weak. both unworkable]		Weak

December 2015

1900z	**8164kHz**	**1920z**	**7364kHz**	**1940z**	**5864kHz**	
01/12	138 1 06397 00235 31686 10422 [1920/1940z unworkable]					Fair
03/12	1900z NRH, 1920z QRM5 1940z BCQRM5					Unworkable
08/12	NRH all slots					Poor condx
10/12	NRH					Poor condx
15/12	138 000 (07874) 00001 00000 10140			[1920z/40z BCQRM5 unworkable]		Very weak, noisy
17/12	Unworkable [1900z NRH, 1940z BCQRM5]					Extremely weak, noisy
22/12	1900/1920z NRH. poor condx		1940z Just audible under BCStn			Unworkable
23/12	Poor condx					NRH
29/12	138 000 01001 00001 00000 10140			[1920z/40z BCQRM5 unworkable]		Very weak, noisy
31/12	138 000 03348 00001 00000 10140			[1920z/40z BCQRM5 unworkable]		Weak

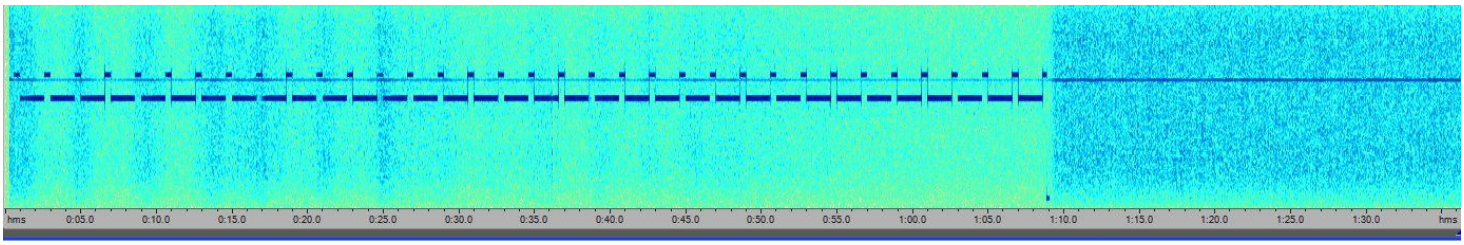
XPA2 m

Sunday/Tuesday

November 2015

1300z	**18238kHz**	**1320z**	**16238kHz**	**1340z**	**14438kHz**	
01/11	04574 00001 00000 10140					Very strong
03/11	08317 00001 00000 10140					Very strong
08/11	04812 00133 36679 16135					Very strong
10/11	04812 00133 36679 16135		[1340z Weak, QSB4]			Very strong
15/11	09570 00001 00000 10140					Very strong
17/11	03228 00001 00000 10140					Extremely strong
22/11	01834 00001 00000 10140					Very strong
24/11	06954 00001 00000 10140					Extremely strong
29/11	05594 00075 38087 37211					Extremely strong

December 2015



1300z sending 08/12 … 1m09s

1300z	**14538kHz**	**1320z**	**13538kHz**	**1340z**	**12138kHz**	
01/12	05594 00075 38087 37211					Weak
06/12	09177 00001 00000 10140					Very strong
08/12	01619 00001 00000 10140			[1300z Loss of signal after 1m09s]		Very strong
13/12	00147 00097 71416 51026			[1340z BCQRM2+Het]		Extremely strong
20/12	04183 00001 00000 10140			[1320z Loss of carrier]		Fair
22/12	08393 00001 00000 10140			[1900z Weak, QRM4]		Fair
27/12	03846 00067 37415 23137					Very strong
29/12	03846 00067 37415 23137					Extremely strong

XPA2 p

Monday/Wednesday

November 2015

0800z	**16073kHz**	**0820z**	**14973kHz**	**0840z**	**14373kHz**	
02/11	02089 00067 93897 27237					Extremely strong
04/11	02089 00067 93897 27237					Extremely strong
09/11	04585 00001 00000 10140					Very strong
11/11	03434 00001 00000 10140					Very strong
16/11	09513 00155 10556 11724					Extremely strong
18/11	09153 00155 10556 11724					Fair, QSB3/4
23/11	07170 00001 00000 10140					Very strong
25/11	03879 00001 00000 10140					Extremely strong
30/11	04262 00001 00000 10140					Very strong

December 2015

0800z	**15861kHz**	**0820z**	**14761kHz**	**0840z**	**13561kHz**	
02/12	04262 00091 46699 04251					Extremely strong
07/12	04207 00001 00000 10140					Extremely strong
09/12	03230 00001 00000 10140					Strong
14/12	06471 00107 57392 51016			[0820z Weak, QSB3]		Very strong
16/12	06471 00107 57392 51016					Very strong
21/12	08141 00001 00000 10140					Strong
23/12	09306 00001 00000 10140					Strong
28/12	07532 00123 79574 25467					Very strong
30/12	07532 00123 79574 25467					Very strong

XPA2 r

Friday/Saturday

November 2015

1400z	**17462kHz**	**1420z**	**16114kHz**	**1440z**	**14828kHz**	
06/11	08301 00001 00000 10140					Very strong
07/11	0392(8) 00001 00000 10140			[R3 Blackout, 1400/1420z unworkable]		Very weak
13/11	05170 00071 41197 44605					Very strong
14/11	05170 00071 41197 44605					Very strong
20/11	03304 00001 00000 10140					Very strong
21/11	07399 00001 00000 10140					Very strong
27/11	01807 00097 45375 60274					Very strong
28/11	08010 00001 00000 10140					Very strong

December 2015

1400z	**15967kHz**	**1420z**	**13884kHz**	**1440z**	**12217kHz**	
04/12	07894 00089 80713 46240					Strong, QSB3
05/12	07894 00089 80713 46240					Very strong
11/12	02587 00077 33114 62116			[1420z Weak]		Fair, QSB2

XPA2 r continued

12/12	02587 00077 33114 62116	[1400z Weak]	Fair
18/12	02575 00001 00000 10140		Fair
19/12	07659 00001 00000 10140		Extremely strong
25/12	07719 00121 67628 15065		Very strong
26/12	07719 00121 67628 11065		Fair

HM01

HM01 continued on the expected times and frequencies and closed out the year with the callup numbers not incrementing as has happened four times over the previous two months.
The Cubans provided a little excitement for us on 4/12. The 1600z transmission started as normal and with the same callups that had been sent for the previous several days. At 16:11z the transmission stopped mid-RDFT. There was then one round of callups [17071 53765 72359 31576 81683 48864] followed by a pause then 17 170 (the first 2 and 3 digits of the first callup) then back into RDFT. The RDFT sounded slightly different than usual as there was a slight "warble" following the lead in tones. At the end of the RDFT the lead in tones restarted and the transmission continued to repeat without callups. The contents of the RDFT transmission was a 936 byte file with the name ppp2.txt. The full contents of this file are as follows:

esto es una prueba de tx con mto de yvc....saludos
esto es una prueba de tx con mto de yvc....saludos
esto es una prueba de tx con mto de yvc....saludos
esto es una prueba de tx con mto de yvc....saludos
esto es una prueba de tx con mto de yvc....saludos
esto es una prueba de tx con mto de yvc....saludos
esto es una prueba de tx con mto de yvc....saludos
esto es una prueba de tx con mto de yvc....saludos
esto es una prueba de tx con mto de yvc....saludos
esto es una prueba de tx con mto de yvc....saludos
esto es una prueba de tx con mto de yvc....saludos
esto es una prueba de tx con mto de yvc....saludos
esto es una prueba de tx con mto de yvc....saludos
esto es una prueba de tx con mto de yvc....saludos
esto es una prueba de tx con mto de yvc....saludos
esto es una prueba de tx con mto de yvc....saludos
esto es una prueba de tx con mto de yvc....saludos
esto es una prueba de tx con mto de yvc....saludos

We translated this initially as "this is a test transmission with mto de yvc....greetings"
We had no idea who mto or yvc might be although our spanish consultant has since confirmed that mto is a common abbreviation for "maintenance". So another possible – and plausible - reading is . "This is a test transmission with/by maintenance, this is yvc.....greetings."
This transmission continued to mix in with the regular HM01 schedules for the rest of the day. This is the third message we have managed to decode with this one being easiest as it was sent as plain text and just needed to be opened in any text viewer.

Other items of note.

On 3/11 all new callups were seen at 1800z (we missed the earlier transmission or it may not have been present). It turns out that these were the same callups transmitted

On 19/3. These callups remained in place for another 6 days but then they all changed again at 2100z on 10/11. It should be noted that on return several of these callups were present on 2/11 the day before the callups changed and that those callups had incremented +1. It seems very plausible that what happened here was a computer failure and that the backup computer that had last been used on 19/3 was put in its place, especially considering that on 2/11 the early transmission was not present and on 10/11 the day started with the same callups as the previous day but had switched by 2100z.

2/11 1800z callups [32432 32231 53875 61431 36887 67788]
10/11 2100z callups[32433 32231 53876 61432 48080 43331]
On 13/12 there was a few seconds of guitar music before the HM01 was heard.

Several "F1*" files were also transmiited over the period with 50833223.F1C, 50846143.F1C, 50228168.F1C, 50041707.F1C, 50673142.F1C, 50024880.F1C, 50830758.F1C, 36231860.F1G, 50242603.F1C. As usual file names with F1C extensions start with 50 and seem to favor even numbers as their third digit. Files with F1G start with 36.

On to the logs

HM01 11435kHz 1600z 1/11 [32431 48838 53874 61431 36886 67787] New callup position 4, 61431 = ???????? (see 10/11 for likely file name). SUN
HM01 11435kHz 1600z 2/11 [32432 32231 53875 61431 36887 67788] New callup position 2, 32231 = ???????? (see 10/11 for likely file name). MON
HM01 11635kHz 1800z 3/11 [85760 10606 35366 57673 23835 14033] All new callups since yesterday. 85760 = 54628576.TXT, 10606 = 63771060.TXT, 35366 = 77483536.TXT, 57673 = 85245767.TXT, 23835 = 17632383.TXT, 14033 = 81211403.TXT, TUE * Interesting see 19/3 when these same callups appeared. TUE
HM01 11435kHz 1600z 4/11 [85760 10606 35366 57673 23835 14033] Same callup as yesterday. WED
HM01 11435kHz 1600z 6/11 [85760 10606 35366 57673 23835 14033] Same callups as Wednesday. FRI
HM01 11435kHz 1600z 7/11 [85760 10606 35366 57673 23835 14033] Same callups as Yesterday. SAT

Many Thanks!

Other's logs:

November 2015

10715kHz2200z	02/11[32432 32231 53875 61431 36887 67788] QSA3	DanAR	MON
2200z	06/11[85760 10606 35366 57673 23835 14033] QSA3	DanAR	FRI
2200z	08/11[85760 10606 35366 57673 23835 14033] QSA3	DanAR	SUN
2200z	09/11[85760 10606 35366 57673 23835 14033] QSA2	DanAR	MON
2200z	11/11[32434 32232 53877 61433 48081 43331] QSA3	DanAR	WED
2200z	13/11[32436 32234 53879 61435 48083 43333] QSA2	DanAR	FRI
16180kHz2100z	05/11[85760 10606 35366 57673 23835 14033] QSA2	DanAR	THU
17480kHz2200z	10/11[32433 32231 53876 61432 48080 43331] QSA3	DanAR	TUE
2200z	12/11[32435 32233 53878 61434 48082 43332] QSA3	DanAR	THU
2200z	14/11[32436 32234 53879 61435 48083 43333] QSA3	DanAR	SAT

December 2015

10715kHz2200z	02/12 (17071 53765 72359 31576 81683 48864) QSA2	DanAR	WED
2200z	04/12 (17071 53765 72359 31576 81683 48864) QSA2	DanAR	FRI
2200z	06/12 (17071 53765 72359 31576 81683 48864) QSA3	DanAR	SUN
2200z	07/12 (17071 53765 72359 31576 81683 48864) QSA2 QRN3	DanAR	MON
2200z	09/12 (????? ????? ????? ????? 52605 07588) QSA2 -Mixed audio-	DanAR	WED
2200z	13/12 (31426 55721 32036 18602 52608 28661) QSA3	DanAR	SUN
2200z	14/12 (31427 55722 32037 18603 52609 28662) QSA2	DanAR	MON
2200z	16/12 (31429 55724 32039 18605 71111 28664) QSA2	DanAR	WED
16180kHz2100z	05/12 (17071 53765 72359 31576 81683 48864) QSA2	DanAR	SAT
2100z	17/12 (26031 55725 88241 18606 71112 28665) QSA2	DanAR	THU
17480kHz2200z	01/12 (17071 53765 72359 31576 81683 48864) QSA3	DanAR	TUE
2200z	03/12 (17071 53765 72359 31576 81683 48864) QSA3	DanAR	THU
2200z	08/12 (31423 48807 32033 64658 52605 07588) QSA3 -Mixed audio-	DanAR	TUE
2200z	10/12 (31423 48807 32033 64658 52605 07588) QSA3	DanAR	THU
2200z	15/12 (31428 55723 32038 18604 71111 28663) QSA3	DanAR	TUE

With HM01 reception in the US and the Argentine PoSW posts his logs from England:
Somewhat variable reception from Cuba in the last two months of 2015. Starts up a couple of minutes before the hour, pauses for a break at around twenty minutes past, goes into call-up mode at about twenty-eight minutes past.

2-Nov-15, Monday:- 0758 UTC, just after, 9,065 kHz, "32431 48838 53874 61431 36886 67787", S9 with the usual fading up and down, data noises started at 0801:45s UTC.
0858 and 20s UTC, 9,240 kHz, 5Fs as earlier, S8 to S9.

3-Nov-15, Tuesday:- 0758 UTC, just after, 11,635 kHz, "32432 32231 53875 61431 36887 67788. S9 with QSB, no sign of a transmission one hour earlier on 13,435 kHz.
0858:20s UTC, 11,462 kHz, 5Fs as earlier, up to S9.

4-Nov-15, Wednesday:- 0700 UTC, 9,330 kHz, very weak signal of some kind, unable to confirm as HM01.

5-Nov-15, Thursday:- 0800 UTC, 11,635 kHz, another "too weak to confirm", propagation must have changed from two days ago when this frequency gave a good signal.

6-Nov-15, Friday:- 0736 UTC, 9,330 kHz, transmission in progress, S9 with QSB, propagation must have improved dramatically over the course of half an hour or so because this was too weak to copy at the start-up around 0700Z. Heard 5F groups, "57673 23835 14033 85760 10606 35366".

9-Nov-15, Monday:- no sign of HM01 on 9,330 kHz when checked at 0700Z.

11-Nov-15, Wednesday:- nothing identifiable as HM01 on 9,330 at 0700Z or on 9,065 at 0800Z.

12-Nov-15, Thursday:- 0858 UTC, 11,462 kHz, very weak signal, unreadable.

14-Nov-15, Saturday:- 0908 UTC, 11,462 kHz, transmission in progress, best copy from HM01 for over a week. Over S9, slight interference from a weak FSK/RTTY type signal on a close frequency. Heard 5Fs, "32436 32234 53879 61435 48083 43333".
0959 UTC, 12,180 kHz, unusual for this frequency to be heard with an S9 signal as it was this morning, call-up in progress when tuned in, 5Fs as earlier, data at 1001:25s UTC.

15-Nov-15, Sunday:- 0858 UTC, 9,240 kHz, "32436 32234 53879 61435 48083 43333", same as heard yesterday, S6 to S7.

16-Nov-15, Monday:- 0810 UTC, 9,065 kHz, transmission in progress, 5Fs the same as the past two days, S8 to S9. Stopped for a breather around 0819Z, call-up started again exactly
at 0828, data at 0831:20s UTC.

17-Nov-15, Tuesday:- 0830 UTC, 11,635 kHz, very weak signal, unreadable, and 0900 UTC,
11,462 kHz, also very weak and unreadable but the FSK/RTTY signal close to 11,462 and normally too weak to be of concern was S9.

18-Nov-15, Wednesday:- 0729 UTC, 9,330 kHz, very weak signal of some kind, looks like propagation has taken a dive again.

19- Nov-15, Thursday:- 0828 UTC, 11,635 kHz, the ionosphere bounces back, S9 signal, "25521 32237 72352 61438 48086 43336", data at 0831:20s UTC.

The 0900Z transmission on 11,462 was too weak to copy.

22-Nov-15, Sunday:- 0928 UTC, just before, 9,240 kHz, “25524 53761 72355 31572 48089 48861”, peaking S9.

25-Nov-15, Wednesday:- 0728 UTC minus ten seconds, 9,330 kHz, “25527 53764 72358 31575 81682 48863”, S9 with the usual fading up and down, data at 0731:10s UTC.

27-Nov-15, Thursday:- 0858 UTC, minus 20 seconds approx, 9,240 kHz, “17071 53765 72359 31576 81683 48864”, S8 with deep fading, data just after 0901 UTC.

29-Nov-15, Sunday:- 0828 UTC -20s, 9,065 kHz, “17071 53765 72359 31576 81683 48864”,
unchanged from Thursday, peaking S9.

2-Dec-15, Wednesday:- 0828 UTC, 9,065 kHz, call-up after the break had started when tuned in, “17071 53765 72359 31576 81683 48864, 5Fs stuck in a rut, over S9 at times.

3-Dec-15, Thursday:- 0936 UTC, 11,462 kHz, transmission in progress, peaking S9, a dramatic improvement from the start at around 0900Z when it was too weak to be copied. Heard 5Fs, “17071 53765 72359 31576 81683 48864”, - again.

6-Dec-15, Sunday:- 0858 UTC, 9,240 kHz, call-up routine in progress when tuned in, “17071 53765 72359 31576 81683 48864”, still.

7-Dec-15, Monday:- 0858 UTC, minus 25s approx, 9,240 kHz, “17071 53765 72359 31575 81683 48864”, so again no change. Up to S9, data noise started about 5 seconds before 0901Z.

10-Dec-15, Thursday:- no sign of HM01 on 11,635 when checked just after 0800Z, or on 11,462 at around 0900Z.

11-Dec-15, Friday:- no sign of HM01 on 9,330 after 0700Z or on 9,065 at 0800Z - but there was no problem with the 0900Z transmission:-
0858 UTC, 9,240 kHz, surprised to find call-up in progress since there was nothing heard earlier, “31423 48807 32033 64658 52605 07588”, changed since I last monitored HM01, S8 with deep QSB, data at 0900:55s UTC.

Data

FSK POL 15915kHz 1325z 01/11[0221 (R5) 00000 (R10)]1326z QSA4Associated E11 = 228/00	JkC	SUN
FSK POL 15915kHz 1330z 01/11[0221 (R5) 00000 (R10)]1331z QSA4	JkC	SUN
FSK POL 15915kHz 1325z 02/11[0221 (R5) 88888 (R2) 33907 ... 49297 88888 (R2) 00042 (R2)]1526z QSA3 Associated E11 = 225/38	JkC	MON
FSK POL 15915kHz 1330z 02/11[0221 (R5) 88888 (R2) 33907 ... 49297 88888 (R2) 00042 (R2)]1531z QSA3	JkC	MON
FSK POL 5831kHz 0300z 04/11[Too weak for decode]0301z QSA2 Associated E11 = 253/00	JkC	WED
FSK POL 5831kHz 0305z 04/11[Too weak for decode]0306z QSA2 QRM1 QSB1	JkC	WED
FSK POL 4828kHz 1305z 04/11[0457 (R5) 00000 (R10)]1306z QSA4 Associated M03 = 543/00	JkC	WED
FSK POL 4828kHz 1310z 04/11[0457 (R5) 00000 (R10)]1311z QSA4 QRM1 QSB1	JkC	WED
FSK POL 4505kHz 1305z 05/11[0437 (R5) 88888 (R2) FG 52050 ... LG 50898 88888 (R2) 00034 (R2)]1306z QSA4 QRM1 QSB1	JkC	THU
Associated M03 = 430/30 See transcript		
FSK POL 4505kHz 1310z 05/11[0437 (R5) 88888 (R2) FG 52050 ... LG 50898 88888 (R2) 00034 (R2)]1311z QSA4 QRM1 QSB1	JkC	THU

Transcripts
FSK POL 4505kHz 1305z 05/11
0437 (R5)
88888 88888
52050 22297 75133 03683 98465 75889 03954 09882 68626 14500
57989 52090 47442 17380 21452 25084 04028 52275 83126 76468
44936 27237 79984 56844 09749 35160 51355 60007 90422 50898
88888 88888
00034 00034

FSK POL 9179kHz 1610z 07/11[0877 (R5) 00000 (R10)]1611z QSA4Associated S11a = 831/00	JkC	SAT
FSK POL 9179kHz 1615z 07/11[0877 (R5) 00000 (R10)]1616z QSA4	JkC	SAT
FSK POL 15915kHz 1525z 08/11[0221 (R5) 88888 (R2) 33907 ... 49297 88888 (R2) 00042 (R2)]1526z QSA4 QRM1 QSB1 Associated E11 = 225/38 Repeat of 02/11/15	JkC	SUN
FSK POL 15915kHz 1530z 08/11[0221 (R5) 88888 (R2) 33907 ... 49297 88888 (R2) 00042 (R2)]1531z QSA4 QRM1 QSB1	JkC	SUN
FSK POL 15915kHz 1525z 09/11[0221 (R5) 00000 (R10)]1526z QSA3 QRM1 QSB1 Associated E11 = 228/00	JkC	MON
FSK POL 15915kHz 1530z 09/11[0221 (R5) 00000 (R10)]1531z QSA3 QRM1 QSB1	JkC	MON
FSK POL 9179kHz 1610z 10/11[Too weak for decode]1611z QSA3 QRM2 QSB1 Associated S11a = 831/00	JkC	TUE
FSK POL 9179kHz 1615z 10/11[Too weak for decode]1616z QSA3 QRM2 QSB1	JkC	TUE
FSK POL 4828kHz 1305z 11/11[0547 (R5) 00000 (R10)]1306z QSA3 QRM1 QSB1 Associated M03 = 543/00	JkC	WED
FSK POL 4828kHz 1310z 11/11[0547 (R5) 00000 (R10)]1311z QSA3 QRM1 QSB1	JkC	WED
FSK POL 16388kHz 0730z 12/11[0433 (R5) 88888 (R2) FG 28732 ... LG 95250 88888 (R2) 00034 (R2)]0631z QSA3 QRM1 QSB1	JkC	THU

Associated E11 = 335/30 See transcript
FSK POL 16388kHz 0735z 12/11[0433 (R5) 88888 (R2) FG 28732 ... LG 95250 88888 (R2) 00034 (R2)]0636z QSA3 QRM1 QSB1 JkC THU

FSK POL 16388kHz 0730z/0735 12/11
0433 (R5)
88888 88888
28732 07476 65307 89922 68031 41260 45727 87877 96145 34718
12376 07803 70374 30915 88889 19444 28083 75356 77750 38639
36120 67111 99628 88991 44134 94246 67228 68989 37051 95250
88888 88888
00034 00034

FSK POL 6836kHz 0800z 12/11[0434 (R5) 88888 (R2) FG 87587 ... LG 41728 88888 (R2) 00041 (R2)]0801z QSA4 QRM1 QSB1 JkC THU

Associated E11 = 430/37 See transcript
FSK POL 6836kHz 0805z 12/11[0434 (R5) 88888 (R2) FG 87587 ... LG 41728 88888 (R2) 00041 (R2)]0806z QSA4 QRM1 QSB1 JkC THU

FSK POL 6836kHz 0800z/0805z 12/11
0434 (R5)
88888 88888
87587 87323 77681 10309 32021 06451 78535 53736 79901 25028
55209 71184 10541 20347 85539 73884 56713 96067 88387 42334
60830 00334 87124 25191 43063 76287 45013 40790 71793 52998
10975 01037 15431 27996 47334 56069 41728
88888 88888
00041 00041

FSK POL 12630kHz 1000z 12/11[0765 (R5) 00000 (R10)]1001z QSA4 QRM1 QSB1 JkC THU
Associated S11a = 475/00
FSK POL 12630kHz 1005z 12/11[0765 (R5) 00000 (R10)]1005z QSA4 QRM1 QSB1 JkC THU

FSK POL 15915kHz 1525z 16/11[0221 (R5) 00000 (R10)]1526z QSA4 QRM1 QSB1 JkC MON
Associated E11 = 228/00
FSK POL 15915kHz 1530z 16/11[0221 (R5) 00000 (R10)]1531z QSA4 QRM1 QSB1 JkC MON

FSK POL 9179kHz 1610z 21/11[0877 (R5) 88888 (R2) FG 52780 ... LG 92969 88888 (R2) 00037 (R2)]1611z QSA4 QRM1 QSB1 JkC SAT
Associated S11a = 835/33 See transcript. Repeat of S11a 17/11/15.
FSK POL 9179kHz 1615z 21/11[0877 (R5) 88888 (R2) FG 52780 ... LG 92969 88888 (R2) 00037 (R2)]1616z QSA4 QRM1 QSB1 JkC SAT

FSK POL 9179kHz 1610z/1615z 21/11
0877 (R5)
88888 88888
52780 42765 61269 61506 12349 07837 18456 71930 11267 94044
49133 20279 62086 42839 79136 84628 68963 26093 12793 14023
12726 10435 61495 48627 51450 75592 80311 05718 19316 15493
00644 46984 92969
88888 88888
00037 00037

FSK POL 4828kHz 1305z 23/11[NRH]1306z JkC MON
Associated M03 = 541/36
FSK POL 4828kHz 1310z 23/11[NRH]1311z JkC MON

FSK POL 15915kHz 1525z 23/11[Too weak for decode]1526z QSA2 QRM1 QSB1 JkC MON
Associated E11 = 228/00
FSK POL 15915kHz 1530z 23/11[Too weak for decode]1531z QSA2 QRM1 QSB1 JkC MON

FSK POL 9179kHz 1610z 24/11[0877 (R5) 00000 (R10)]1611z QSA4 QRM2 QSB1 JkC TUE
Associated S11a = 831/00
FSK POL 9179kHz 1615z 24/11[0877 (R5) 00000 (R10)]1616z QSA4 QRM2 QSB1 JkC TUE

December 2015

FSK POL 9176kHz 1610z 01/12[0877 (R5) 00000 (R10)]1611z QSA3 QRM2 QSB1 JkC TUE
Associated S11a = 831/00 Moved down 3kHz (to avoid B/C station)
FSK POL 9176kHz 1615z 01/12[0877 (R5) 00000 (R10)]1616z QSA3 QRM2 QSB1 JkC TUE
Spectre's News round up

FSK POL 10641kHz 1150z 02/12[0325 (R5) 00000 (R10)]1151z QSA4 QRM1 QSB1 JkC WED
Associated E11 = 469/00
FSK POL 10641kHz 1155z 02/12[0325 (R5) 00000 (R10)]1156z QSA4 QRM1 QSB1 JkC WED

FSK POL 4828kHz 1305z 02/12[0547 (R5) 00000 (R10)]1306z QSA3 QRM1 QSB1 JkC WED
Associated M03 = 543/00
FSK POL 4828kHz 1310z 02/12[0547 (R5) 00000 (R10)]1311z QSA3 QRM1 QSB1 JkC WED

FSK POL 9179kHz 1610z 05/12[0877 (R5) 00000 (R10)]1611z QSA3 QRM1 QSB1 JkC SUN

Associated S11a = 831/00		
FSK POL 9179kHz 1615z 05/12[0877 (R5) 00000 (R10)]1616z QSA3 QRM1 QSB1	JkC	SUN
FSK POL 4828kHz 1305z 07/12[0547 (R5) 00000 (R10)]1306z QSA3 QRM2 QSB1	JkC	MON
Associated M03 = 543/00		
FSK POL 4828kHz 1310z 07/12[0547 (R5) 00000 (R10)]1311z QSA3 QRM2 QSB1	JkC	MON
FSK POL 15915kHz 1525z 07/12[0221 (R5) 00000 (R10)]1526z QSA4 QRM1 QSB1	JkC	MON
Associated E11 = 228/00 Rimini remote		
FSK POL 15915kHz 1530z 07/12[0221 (R5) 00000 (R10)]1531z QSA4 QRM1 QSB1	JkC	MON
FSK POL 9179kHz 1610z 08/12[Too weak for decode)]1611z QSA2 QRM1 QSB1	JkC	TUE
Associated S11a = 831/00		
FSK POL 9179kHz 1615z 08/12[Too weak for decode)]1616z QSA2 QRM1 QSB1	JkC	TUE
FSK POL 4828kHz 1305z 09/12[0547 (R5) 00000 (R10)]1306z QSA3 QRM1 QSB1	JkC	WED
Associated M03 = 543/00		
FSK POL 4828kHz 1310z 09/12[0547 (R5) 00000 (R10)]1311z QSA3 QRM1 QSB1	JkC	WED
FSK POL 9179kHz 1610z 15/12[Too weak for decode]1611z QSA3 QRM3 QSB1	JkC	TUE
Associated S11a = 839		
FSK POL 9179kHz 1615z 15/12[Too weak for decode]1616z QSA3 QRM3 QSB1	JkC	TUE
FSK POL 4828kHz 1305z 17/12[0437 (R5) 00000 (R10)]1306z QSA3 QRM1 QSB1	JkC	THU
Associated M03 = 437/00		
FSK POL 4828kHz 1310z 17/12[0437 (R5) 00000 (R10)]1311z QSA3 QRM1 QSB1	JkC	THU
FSK POL 10641kHz 1150z 22/12[NRH]1151z	JkC	TUE
Associated E11 = NRH		
FSK POL 10641kHz 1155z 22/12[NRH]1156z	JkC	TUE
FSK POL 17531kHz 1250z 09/12[Too weak for decode]1251z QSA2 QRM1 QSB1	JkC	WED
Associated E11 = 133/00		
FSK POL 17531kHz 1255z 09/12[Too weak for decode]1256z QSA2 QRM1 QSB1	JkC	WED
FSK POL 9179kHz 1610z 22/12[Too weak for decode]1611z QSA2 QRM2 QSB1	JkC	TUE
Associated S11a = 831/00		
FSK POL 9179kHz 1615z 22/12[Too weak for decode]1616z QSA2 QRM2 QSB1	JkC	TUE

Many thanks to all contributors to Morse, Voice and Data sections as well as other items such as newpieces

PoSW's Items of Interest in the Media:-

Successful “Gizzajob” applicant:- From the “Around the world in 10 stories” column of the I newspaper of 9-December, a short item with the headline, “ 'The model' to lead Mossad”, which says, “A spy master with a reputation for activating and managing secret agents all over the world has been appointed head of Mossad by Prime Minister Benjamin Netanyahu.
Yossi Cohen, 54, who has served in the spy agency for more than 30 years and has been the Prime Minister's national security adviser for the past two years, was likened by the Israeli press yesterday to a character from Ian Fleming. It is a comparison seemingly aided by his nickname – 'the Model', given for his dapper appearance.”

And from the same column comes a story from Japan, headlined, “Air of secrecy over launch of anti-terror unit”, by Mari Yamaguchi in Tokyo, “Japan launched a new counter-terrorism unit in an air of secrecy yesterday, with journalists only allowed to photograph its 24 members from behind to protect their identity.
The country is expanding its international espionage work after being shocked by the deaths of five Japanese citizens at the hands of Islamic militants this year, and ahead of a G7 summit in Japan next year and the Tokyo games in 2020.
The new unit includes staff from the foreign and defence ministries, the National Police Agency and the Cabinet Intelligence and Research Office. Japan has no institute to train intelligence agents, so they will have to learn on the job.”

Uncle Sam needs our spies, according to an item in The Times of 30-October, under the headline, “We need British spies to keep world safe, US says”, written by Deborah Haynes, Defence Editor, Washington, which says:- “The ability of the United States to thwart terrorist attacks anywhere in the world would suffer if Britain placed overly stringent curbs on the digital powers of its spy agencies, a series of serving and former officials have warned.
Key figures from the National Security Agency (NSA), Central Intelligence Agency (CIA) and the office of the chief intelligence adviser to President Obama described Britain as a unique and indispensable partner in intelligence. Information shared by British spies had helped the US to disrupt international terrorist activity, they added.
'The UK is indispensable to our efforts,' said Andrew Hallman, a deputy director at the CIA. 'They are such critical partners. The special relationship is very important to what we do.'
US spy chiefs are watching to see how Britain shapes the first major piece of legislation covering intelligence gathering to be put before Parliament since the revelations by Edward Snowden, the former NSA contractor, about bulk US and UK surveillance capabilities.

The Investigatory Powers Bill, due to be tabled next week, will replace an outdated series of laws that sanction the collection and analysis of large amounts of communications data by British spies and the police. Such tools are regarded by the intelligence agencies as crucial to locate threats and identify suspects but by human rights groups as an unjustifiably intrusive invasion of on-line privacy.

Robert Litt is legal adviser to James Clapper, the director of national intelligence. Speaking to The Times at his offices in McLean, Virginia, he said that new constraints on Britain's digital spying powers 'would have an impact on the flow of information from the UK to the US and that would have an effect on US intelligence capabilities.'
Britain and the US have enjoyed a uniquely close relationship since the Second World War. The NSA was created in 1952 to perform the same kind of code-making and code-breaking role as the British spies of Bletchley Park – the precursor to GCHQ.
Chris Inglis, former deputy director at the NSA, said that there had been times when a tip-off from a UK intelligence officer had changed the course of a US counter-terrorism operation.
Mike Rogers, the former Republican chairman of the permanent select committee at the US Congress, said that Britain's ability to exploit bulk data and use other digital powers to uncover terrorist activity was 'hugely important to the safety and national defence of Europe as well as the United States'. He added: 'When you start taking some of your best players off the field, guess what? You are going to start loosing games. That is what I worry about when we restrict the good guys and empower the bad guys'."

Arson about in Moscow:- the I newspaper of 10-November carried a story written by Andrew Osborne headlined, "Artist sets fire to secret police HQ", which says:- "One of Russia's most radical political performance artists faces up to three years in jail after setting fire to the headquarters of the FSB security service, the successor to the Soviet-era KGB secret police.
Police detained Pyotr Pavlensky early yesterday morning after he doused the main entrance of the building - a symbol of Communist – era repression which also houses the notorious Lubyanka prison - with petrol and started a fire. Footage posted on a video-sharing website from Pavlensky's account showed him standing in front of the vast neo-baroque building holding a petrol can as the fire raged behind him.
It also showed the 31 year-old being detained by police, who later said they had opened a criminal case against him for suspected vandalism, a charge that carries a jail term of up to three years.
In a message accompanying the video, Pavlensky called his performance 'The Threat', saying it was meant to draw attention to what he called the terror tactics used by the FSB, which was briefly run by Vladimir Putin before he became president.
Pavlensky has carried out other extreme 'performances', which he says are designed to poke holes in the Kremlin's propaganda machine. In November 2013 he nailed his scrotum to Red Square, a gesture he described as a metaphor for the political apathy of Russian society. In 2012 he sewed his lips together to protest against the jailing of the punk band Pussy Riot. He was briefly detained in 2014 after slicing off part of his earlobe."

Moving swiftly on from "setting alight" to "satellite", an illustration of which appeared in a piece in The Times of 6-November with the headline, "Five Eyes network on constant search for terror threats, written by Michael Evans and Tom Coghlan which says, "The intelligence agencies of the US and Britain mount round-the-clock eavesdropping to try to pre-empt terrorist attacks.
GCHQ, based in Cheltenham but with a crucial listening station in Cyprus, and the huge National Security Agency organisation at Fort Meade in Maryland have super-computers that trawl communications for key words to alert analysts to bomb plots.
The two nations are the main players in the so-called 'Five Eyes' intelligence network, which also includes Canada, Australia and New Zealand. Set up in the 1940s, in effect the network offers a near-global series of linked listening stations.
Above them in low or high orbit are spy satellites with sensors that can pick up signal intelligence or collect imagery such as sudden bursts of heat from a missile launch or explosion. Both GCHQ and NSA have huge antennae which scoop up the data from the global orbiting satellites and feed it into rows of the most advanced computers in the world, which pick out key words.
The current network of American signals intelligence satellites are code-named Magnum. Their receiving dishes are about 100 metres in diameter.
Britain has to rely on American satellites because the only attempt to build a UK-designed satellite, code-named Zircon, had to be abandoned when the top-secret programme was leaked to the New Statesman.
Ever since the rise of Islamic State, the interlinked agencies have been focusing on any attempt by the militants to make contact by mobile phone, Skype, e-mail, text or internet chat rooms.

Although Isis, like al-Qaeda, has learnt to be aware of America's global network of intelligence satellites, individual operatives have been caught out by using their mobile phones, and have been killed in drone strikes. Isis leaders rarely make the mistake of giving away their locations by picking up their phones. But they do use communications for propaganda reasons which can be intercepted. It's clear Isis has been eager to convince the world that it was responsible for the attack on the plane over the Sinai Peninsular.

The message that was intercepted by GCHQ and the NSA was probably deliberately planted to prove to the Americans and British that Isis operatives were behind the plot.
The NSA dwarfs GCHQ in size, manpower and technological capability. But GCHQ has always proved itself a valuable intelligence partner. Its sites at Akrotiri and Dhekalia have played a key role in the past in scooping up crucial intelligence on terrorist plots. British analysts also have a reputation for being among the most expert in the world in fitting intelligence jigsaw components into a meaningful picture."

And to go with this item there is a colour illustration of a satellite with its large solar panels, positioned over a large part of the Earth's Northern Hemisphere, indications as to the locations of Fort Meade, GCHQ and Cyprus and with Egypt, Sinai, Syria and Iraq prominently highlighted.

Point to ponder:- "The only thing we have to fear is fear itself" (Franklin Delano Roosevelt, 32nd President of the United States).

Thanks Peter.

Spectre's news section:

The Guardian 23/10/2015

MI5 and MI6 cover-up of Cambridge spy ring laid bare in archive papers

Agencies engaged in frantic attempts to prevent information about Kim Philby and other spies from being disclosed to public and even to US government

MI5 and MI6 engaged in a massive effort to cover up the activities of the notorious Cambridge spy ring and avoid hugely embarrassing prosecutions, newly released papers reveal.

The scale of the efforts to smother the unprecedented spy scandal emerges from more than 400 top-secret documents which have been released at the National Archives after being suppressed for more than 50 years.

They show in detail how MI5 and MI6, backed up by senior Foreign Office officials, engaged in frantic attempts to prevent any information about Moscow's "magnificent five" spies – Kim Philby, Guy Burgess, Donald Maclean, Sir Anthony Blunt and John Cairncross – from being disclosed to the British public and even to the US government.

The five were contemporaries at Cambridge University in the 1930s, and were attracted to communism mainly because of the Wall Street crash and in opposition to appeasers in the British and other governments during the rise of Hitler. Burgess was at the centre of the ring, all of whom had Soviet controllers based in London.

The files reveal how Philby – a high-ranking British intelligence officer who became a double agent and ultimately defected to Russia – was protected by his MI6 superiors to the end, and how, in episodes rich in irony, Blunt helped MI5 officers investigate Burgess.

Burgess and Maclean fled to France on 25 May 1951 after a tipoff from Philby that the net was closing in on Maclean. The files show how, as the top MI6 man in Washington, Philby was kept closely informed by his bosses in London about the investigation into his fellow spy.

Many years later, the Foreign Office was still deeply worried about the potentially damaging fallout. “We certainly don’t want either [Burgess and Maclean] to return” an FO official told his boss, Sir Harold Caccia, in 1962.

One problem was the lack of hard evidence against the two men and the difficulty in prosecuting them if they returned to Britain. The FO told Sir Patrick Reilly, the British ambassador in Moscow: “Defection is not, of course, a crime in English law.” One frustrated, unidentified member of the cabinet said Burgess should be warned that if he returned to the UK “he might face a prosecution for homosexuality”.

Soon after the escape, Philby told nervous MI5 officers that Burgess had an “incredibly wide range of acquaintances”. They included Maynard Keynes, Victor Rothschild, EM Forster, WH Auden, Stephen Spender and Somerset Maugham. The files, many of which are heavily redacted, show they also included Clarissa Churchill, the prime minister’s niece, who knew Burgess from her work in the wartime FO.

MI5 intercepted a letter Burgess wrote to her from Moscow in 1956. He said he had written earlier but never posted the letter for fear of embarrassing her. He was writing again to “congratulate you on your marriage” – to Anthony Eden, the foreign secretary.

An increasingly worried MI5 turned to Blunt for help, asking him to write to Burgess pleading with him not to return to Britain.

Burgess was anxious to visit his ailing mother – their warm relationship is reflected in a telegram he wrote in June 1951, apparently sent from Rome, which appears in the files. “Terribly sorry for my silence,” it read. “Am now embarking on long Mediterranean holiday. Do forgive. All love. Guy Boy.”

MI5 told FO officials worried because of the lack of hard evidence: “We have taken steps to have the idea conveyed to Burgess that if he thinks he could come to this country with impunity he is gravely misinformed.”

The result was Blunt’s letter to Burgess, dated 27 February 1959, a letter inspired by MI5 but which also served Blunt’s interest. “What the outcome of the trial would be is of course a matter of speculation, but on the way the whole story would be raked up again and many of your friends would certainly be called as witnesses, and mud slung in all directions,” Blunt wrote.

He added: “As regards myself, I should certainly have to resign one of my jobs and might well lose the other.”

In a covering note to the FO, Courtenay Young told the FO: “The job from which Blunt would have to resign is presumably that of surveyor of the Queen’s pictures, the other of course refers to his position as director of Courthaulds Institute.”

The letter appears to have dismayed Burgess – he had originally recruited Blunt as a spy, and Blunt had got Burgess a job in MI5 when he worked for the security service during the war.

In dissembling perfected by years of betrayal, Philby had earlier distanced himself from Burgess. He told his MI6 superiors he remembered that Burgess “possessed a sunlamp, which he used seldom, if ever, for its normal purpose.” Philby added: “On one occasion Burgess mentioned to me that he possessed a camera.”

But the government wanted to shove the whole spy affair under the carpet, the files make clear. “If we want to avoid embarrassment, the best course would be to let him slip away,” Sir William Strang, the FO’s most senior official, told his Whitehall colleagues in December 1952, referring to Philby.

“You should burn this letter after you have read it,” the FO told their ambassadors abroad as they described growing suspicions about the Cambridge spies. “I think we should be careful of what we pass on to the Americans,” Sir Roger Makins, a senior FO official, told his colleagues. “If the results of this case became public,” he wrote, referring to Maclean’s post as head of the FO’s American department, “it would cause a sensation in the US.”

MI5 had suspected Philby – codenamed Peach in the files – ever since he was questioned by the barrister Helenus “Buster” Milmo in November 1951. By 1955 it had gathered what it considered to be convincing evidence against Philby. A contemporary FO file notes that MI6 was engaged in “intensive lobbying”on Philby’s behalf.

Sir John Sinclair, the head of MI6, hit back at MI5. “It is entirely contrary to the English tradition for a man to have to prove his innocence even when the prosecution is in possession of hard facts,” he wrote. “In a case where the prosecution has nothing but suspicion to go upon, there is even less reason for him, even if he were able to do so, to prove his innocence.”

Cairncross, who was forced to resign from the Treasury after notes were discovered in Burgess’s flat after the escape, confessed to MI5 in 1964 when he was applying for a job in the US. The files reveal the FO’s concern about “publicity” if the UK sought deportation proceeedings. No action was taken against him.

An added cause of potential embarrassment, the FO said, was Cairncross’s brother Alec’s position as chief economic adviser to the government. The government would be seen as employing “someone whose brother was a self-confessed communist spy”, noted the cabinet secretary Sir Burke Trend in a minute on 6 March 1964.

Blunt secretly confessed in 1964 after new evidence emerged against him. The Queen was told but he was allowed to keep his post as surveyor of the Queen’s pictures until he was outed as a wartime Soviet agent in 1979.

Burgess died in Moscow in 1963; Maclean died there in 1983. Philby was given a job with the Observer and Economist in Beirut. After he was offered immunity from prosecution in 1963 by his old MI6 friend Nicholas Elliott, if he would return to London and confess, he hurriedly left on board a Soviet ship. He died in Moscow in 1988.

The Mirror 01/11/2015

China 'using sexy 'honeytrap' women to seduce former MI6 spies into giving up British secrets'

One source claimed the women offer the spies "great sex" and get secrets through "pillow talk"

China is allegedly using 'honeytraps' to get top secret info from British intelligence officials.

They are reportedly deploying "hundreds of beautiful women" who lure ex-MI6 officers into bed.

Intelligence chiefs have told Prime Minister David Cameron that spies from the Far East powerhouse pose a bigger threat to national security than the Islamic State.

A top secret MI6 memo claims Chinese spies are “aggressively” targeting members officials and their families.

It claims there's a particular focus on former officials with ongoing business or social interests in mainland China and Hong Kong.

But the highly classified documents warns other former officials could be targeted.

Our source told the Daily Star : “The Chinese spy network has hundreds of beautiful women who tempt lonely men into bed, offer them great sex then engage in pillow talk. If that doesn’t work they will also use blackmail.”

Sources claim the Chinese Foreign Intelligence Service is also using cybercrime in a bid to steal secrets.

MI5 allegedly believes the cyber attacks against British companies originate from a secret cell within China’s People’s Liberation Army, known as Unit 61398.

The unit is thought to be staffed by hundreds of English-speaking computer experts who steal info from western powers.

The Chinese government denies the unit’s existence and refutes all allegations that it is involved in cyber espionage.

CNN 03/11/2015

MI6 recruits spies on Mumsnet: Do mothers make the best secret agents?

British spy agency MI6 are trying to redress gender imbalance by recruiting on Mumsnet

Mumsnet claim that mothers have a skill set particularly suited to espionage

London (CNN)Forget sharp suits, expensive cocktails, gambling problems and one night stands. Maybe mothers are better spies than James Bond?

A new job advertisement by British spy agency MI6 on the parenting website Mumsnet suggests just this.

The post seeks Intelligence Officers to join its team in London and stresses the importance of qualities including "creativity, insight, curiosity, empathy and intuition."

Successful applicants will be British, have a "wide range of life experience," and could be deployed overseas. The post also warns applicants to be "aware of the importance of discretion."

Jane Gentle, a spokeswoman for Mumsnet, told CNN: "The advert has had a great reaction from our users. We've actually had more applications for this than we have had for any of our other job adverts."

"Mums possess logical and analytical skills, but they also use intuition, empathy and emotional intelligence on a daily basis, which is why MI6 is so keen to recruit them as spies," Gentle added.

"Us mums have to have eyes in the back of our heads to watch over our kids."

MI6 were contacted by CNN, but they have yet to comment.

Users of the Mumsnet forum had mixed reactions to the job advert.

One poster, "Kippersmum," wrote on the Mumsnet forum: "I'm wondering how I would blend into the background whilst trailing an array of school bags, swimming kits & a guitar behind me? I'd be hopeless doing espionage on the school run :)".

"KingJoffreyLikesJaffaCakes" was more confident. "I could be a spy," she wrote. "I think I'd be really good. I'm very good at sitting quietly yet taking everything in. And I can remember conversations word for word."

"Can't drive though," she added.

The advert comes after a Parliamentary commission, led by MP Hazel Blears, warned that UK intelligence agencies are disadvantaged by being made up largely of men from similar backgrounds.

Currently, women make up only around one third of those agencies -- and the Intelligence and Security Committee recommended that intelligence services recruit through Mumsnet.

Blears said in a press release in March: "Diversity will therefore result in better intelligence analysis and a better response to the range of threats that we face to our national security."

Maurice Parsons, Secretary of the Association of Security Consultants firm in Britain, told CNN: "The spy business is very male-dominated. I think it's right that we encourage more women to get involved with MI6.

"In fact, mothers have access to all sorts of information that no one else gets when they stand around the school gates."

MI6 were not only looking for spies in the online community. They also placed adverts for Business Support Officers and Technology Specialists on the Mumsnet website.

The Telegraph 16/11/2015

Britain to hire 2,000 new spies at MI5, MI6 and GCHQ in wake of the Paris terror attacks

The number of spies will rise by 15 per cent in what is expected to be the biggest expansion of the security services since the 7/7 terror attacks in London in July 2005

An additional 2,000 spies will be hired at MI5, MI6 and GCHQ to fight those "who would destroy us and our values" in the wake of the Paris terror attacks, David Cameron has said.
The number of spies will rise by 15 per cent in what is expected to be the biggest expansion of the security services since the 7/7 terror attacks in London in July 2005.

The Prime Minister will also say that the budget for security at foreign airports should double £18 million a year after a Russian passenger plane was apparently destroyed by a bomb earlier this month.
Mr Cameron said: "Our intelligence agencies work round the clock behind the scenes and as the threat has grown so they too have risen to the challenge.

"Much of what they do cannot be seen by us or talked about but their courageous and determined efforts allow us to go about our daily life.

"This is a generational struggle that demands we provide more manpower to combat those who would destroy us and our values."
The new cash for the security and intelligence agencies to provide for an extra 1,900 officers - an increase of 15 per cent - at MI5, MI6 and GCHQ to respond to the increasing international terrorist threat, more cyber-attacks and other global risks. The three agencies currently have a staff of around 12,700.

Extra aviation security experts will be deployed to provide regular assessments of security at airports around the world, with the capacity to 'surge' as necessary in response to the Russian her attack as part of a "step change" in Britain's approach to airport security.

There are just currently 20 Government aviation security liaison officers of whom eight are based overseas.
The Prime Minister said: "We will also step up our efforts on aviation security, helping countries around the world to put in place the tightest security measures possible so that we can continue to enjoy places like Egypt and Tunisia and continue with our way of life we hold so dear.

"Economic security goes hand-in-hand with national security. Since 2010 we have taken the tough decisions necessary to restore our economic strength and we now have one of the fastest growing developed economies.
"That means we can now invest more in our national security and I am determined to prioritise the resources we need to combat the terrorist threat because protecting the British people is my number one duty as Prime Minister."
The National Security Council will meet on Tuesday to discuss the Government's policy on aviation security.

The Prime Minister has ordered a rapid review of security at a number of airports around the world in the wake of the Sinai disaster with aviation specialists expected to conduct assessments over the next two months at locations in the Middle East and North Africa in particular.

Additional security measures were put in place by the UK and US at a number of potentially vulnerable airports over the past year, and these will now be reviewed to check whether they go far enough.

Britain will also offer more advice, training and equipment for other countries to increase security at airports in vulnerable countries and increased research into screening technology and to detect new threats.

The airport security assessments are likely to focus on the nature and scale of the threat and the measures in place to reduce vulnerabilities, for example passenger screening; physical security at the airport and hold baggage and freight screening.

The Atlantic 16/11/2015

The Double Life of John le Carré

How a con-artist father and treason in MI6 created the bard of the Cold War

Every writer is a kind of spy, ghosting through life in the service of an alien power. He lurks, he snoops, he eavesdrops, he jots his jottings, he thinks his treacherous thoughts. But not every spy is a writer. Kim Philby, for example, the Soviet double agent who spent a perfidiously productive decade in the highest echelons of Cold War British intelligence, was also responsible for some appalling prose. "Her political views are Socialistic, but like the majority of the wealthy class, she has an almost ineradicable tendency towards a definite form of philistinism." This is Philby, secret totalitarian, summarizing for his Moscow controllers the ideological impurities of his (at this point) unsuspecting wife, Aileen. "She believes in upbringing, the British navy, personal freedom, democracy, the constitutional system, honor, etc." The single literary touch here is an accident: that supremely horrible and languid etc., following the word honor and trailing off into an abyss of contempt.

Philby is one of the two enormous, duplicitous presences—or anti-presences—hanging over Adam Sisman's new John le Carré: The Biography. The other is its subject's father, Ronnie. Philby was a snake, whereas with Ronnie you reach for adjectives like Falstaffian or Rabelaisian, his monstrous vitality seeming to emanate from some artistic over-realm. But both men were double-sided, truth-inverting, charismatic, untainted by empathy, profoundly destructive, and finally incomprehensible. Between them, they form the reason you will find le Carré's novels in the mystery section of your local bookstore.

John le Carré, one of England's greatest novelists, author of The Spy Who Came In From the Cold and creator of the character George Smiley, was born David Cornwell in 1931 in Poole, England. He was 2 when his father—who was always either booming or busting, expanding and contracting to the rhythm of his own dodginess—got 15 months for fraud and other charges. "He could put a hand on your shoulder and the other in your pocket and both gestures would be equally sincere," David's brother Tony once said. He also molested his own children. "When he came home sozzled," we read in John le Carré, "Ronnie would sometimes climb on to David's bed, pawing and fondling him, while David feigned sleep." (Sisman, perhaps taking his cue from le Carré himself, passes swiftly on from this fact, which might have been the cornerstone of another kind of biography.)

In the manner of many a sociopath, Ronnie was a sentimentalist, too, lachrymose and Kipling-quoting. "Love your old man?" he would ask. Away at boarding school during the Second World War, David felt that his father—who at the time was down in London skimming the cream off the black market—was in need of a cover story. "David quietly let it be known," writes Sisman, "that Ronnie had joined the secret service, was being trained for an important mission and would soon be parachuted into Germany. Unknown to him, his father was peddling similar stories to his cronies in London."

The boys' mother had left, so there was just Ronnie, with his huge, fragrantly oiled head and his well-groomed hands and his alternating waves of neglect and stifling overinvolvement. It's not an unfamiliar story, almost a writerly genesis myth: that of the boy who cultivates extrasensory powers of observation and interpretation, who sharpens his surveillance skills while watching, in fright, his unpredictable father. John le Carré leaves us in no doubt that it was Ronnie—enlarged chaotic patriarch, drunken groper, devourer—who primordially displaced his son from life's center and pushed him out into the flickering zones of the novelist and the spy.

School, in the best English tradition, was hell. Many years later, le Carré remembered his headmaster at St. Andrews thusly: "I always knew when he was going to beat me because he became dreadfully slow in his movements, like a man moving through water. He would stand up, put down his pipe and stare at me in dull confusion." Is it the clogged, distorted energy of the sadist with the pipe that so shocks us, or the traumatic deceleration of the memory itself? To relieve the pressure, David faked sickness, impressively counterfeiting first an epileptic seizure and then the symptoms of a hernia—so precisely that he actually underwent an operation. (An eerie parallel arises here to the tragic story of Aileen Philby, who, as her husband's crimes deepened, began to seriously injure herself and make herself ill.) Le Carré writes of his school days with undiminished boyish loathing—so much so that it feels not reductive but oddly satisfying, like justice, to imagine his Cold War novels as a prolonged and incredibly sophisticated act of vengeance upon the Establishment that had tormented him.

David Cornwell, who would one day join MI6 (foreign intelligence), seems to have started working in earnest for MI5 (domestic intelligence) around 1953, while studying at Oxford. The British double agents Guy Burgess and Donald Maclean had recently defected to Moscow, and although their friend and fellow traitor Kim

Philby was not yet officially exposed, it was, in le Carré's words, "witch-hunt time." We might call this the Philby Effect: Still at large, although under suspicion, he had unzipped the psyche of British intelligence. The Americans had been duped, too—Philby and James Jesus Angleton, the CIA's future head of counterintelligence, were regular lunch buddies in Washington, D.C.—but it was the English upon whom he wreaked real havoc, because it was his Englishness that had enabled and preserved him.* Philby was clubbable and perfectly mannered; he had a sense of humor, that useful English substitute for emotion. The idea of his being crooked was simply impossible, and friends in the service rallied round to debunk it.

With Philby you were in negativeland, the silvery counterworld of the thing that you know but don't want to know that you know—in other words, you were in what would later become the fictional atmosphere of John le Carré. When Smiley reflects upon the treachery—personal and professional—of his colleague Bill Haydon in Tinker, Tailor, Soldier, Spy, le Carré writes, "He knew, of course. He had always known … All of them had tacitly shared that unexpressed half-knowledge which was like an illness they hoped would go away if it was never owned to, never diagnosed."

Taking the pen name John le Carré (he doesn't remember where from), Cornwell began to write while still working in intelligence. The Spy Who Came In From the Cold, in 1963, was the breakthrough: a thriller with the purity of an existential fable, and a best seller. (Its success enabled him to retire from the service.)The cold in the book is actual—October winds and chilly rooms—but it is also metaphysical, infernal: It kills love. The British spy Alec Leamas returns to London from Berlin, his network of agents on the other side of the Wall having been destroyed by his opposite number, Mundt. He is summoned into the aura of his superior, the man known only as Control, a desiccated omniscience fussing over an electric heater. Control shakes Leamas's hand "rather carefully, like a doctor feeling the bones," and then tells him, "I want you to stay out in the cold a little longer." A trap is being set for Mundt. Leamas is instructed to drift, detach, descend, burn out, become useless, until Moscow—convinced at last of his disaffection—makes its inevitable approach to turn him. He is to become a double agent. His cover will be no cover at all: total exposure to the slow wrath of society, and its cold war upon the lonely.

The Berlin Wall of The Spy Who Came In From the Cold, le Carré would later write, was somehow his own wall: his burden, his blockage. "Staring at the Wall was like staring at frustration itself, and it touched an anger in me … A disgusting gesture of history coincided with some desperate mechanism inside myself." But of course it was no coincidence: Although le Carré has written plenty of excellent novels post-perestroika, it was his particular genius as a novelist—what Kipling would have called his "daemon"—that transformed the theater of the Cold War into his own beautifully resonating symbolic structure. The muffled violence, the bleak streets, the human data so refined as to be almost beyond perception—hypervigilance is part of the psychology of the abuse victim, as is dissociation. Standard spy stuff. Control discusses with Leamas the sensation of seeing one's agent get shot: "a sickening jolt like a blow on a numb body."

And in the middle of it all is the spymaster Smiley, as much priest as agent, dense with subterranean knowledge, blinking, suffering, doughily pliable and razor-sharp. His wife cheats on him; his colleagues at the Circus, le Carré's fictional version of British intelligence, corral him with a bruising, bullying affability. Quietly goes Smiley: memory spy, an artist of recollection, traveling back into the files, back into the memory banks of frazzled ex-Circus types such as Connie Sachs, back into his own mind, to find the truth of what is happening around him.

This backwards movement, in its own way a therapeutic operation, is a le Carré signature. "I strain and stretch … I shove with every muscle of my imagination as deep as I dare into the heavy shadows of my own pre-history." Thus reflects Magnus Pym, the Philby-like double man at the heart of 1986's A Perfect Spy. Pym's father, Rick, is Ronnie-like—tremendous, larcenous, overflowing all boundaries. And as resistant to the truth as to a drug: "His face … acquired the dreamy expression that overcame it at the approach of a direct question." It's le Carré's lodestone novel: his two great liars, in one book.

We learn from John le Carré that the Quest for Karla trilogy—the sequence of novels covering the almost mystical battle between Smiley and his KGB nemesis, Karla—was originally conceived as a much larger, Balzacian cycle. It's easy to see how this might have been done: The lore and liturgy of the Circus feels limitless, and the character of Smiley is nearly prophetic. Smiley's Britain is on the wane, "a poor island with scarcely a voice that would carry across the water." In Smiley's People he orders a taxi from a private firm—not because he needs a taxi, but because he wants to quiz the driver about a fare he picked up the day before. After concluding the interview, Smiley blandly directs the cabbie, "You can tell your firm I didn't turn up." "Tell 'em what I bloody like, can't I?" comes the response. A snarl, a micro-wobble of the class system: This is 1970s London, with punk rock around the corner, and the deference of the proletariat can no longer be assumed.

I have sometimes reflected," Sisman writes a bit ruefully in his introduction to the biography, "that my unintended role has been to spoil a fund of good stories." And indeed his investigations—conducted with the cooperation of le Carré himself, who is 84—take on now and again the character of a punctilious field officer's debriefing of a wayward agent. At one point, querying the location of a le Carré anecdote from the early 1950s, he proudly out-fact-checks the fact-checkers at The New Yorker. The anecdote concerns a rendezvous, in an Austrian saloon, with a Czech airman who has information to sell. Le Carré and a colleague enter the bar and order a couple of beers. When le Carré picks up a pool cue and leans over to make a shot, his gun falls out of his waistband with a clang. "Abort," says his colleague, between sips of his pint. (Le Carré was a great writer but a mediocre spy—Philby through the looking glass.)

Writing involves betrayal, and le Carré—after his fashion and to our lasting benefit—double-crossed his own people. His Cold War novels were psychic microfilms of an Establishment hollowed out by deceit, denial, and inadequacy. They outraged his fellow spies. "I deplore and hate everything he has done and said against the intelligence services" was the verdict of one former colleague, late in life, on the le Carré opus. And Sisman also gives us this: " 'You bastard!' a middle-aged intelligence officer, once his colleague, yelled down the room at him, as they assembled for a diplomatic dinner in Washington. 'You utter bastard.' " But what else could he have done, this damaged son, this malingering schoolboy, this doubtful servant of a shrinking empire—this spiritual exile, onto whose numb body the blows had fallen—what else could he have done but make his report?

Ara News 08/12/2015

ISIS beheads five Russians on charges of spying

The radical group of Islamic State (ISIS) has reportedly beheaded five Russian nationals accused of spying against the ISIS self-declared caliphate, informed sources reported on Tuesday.

This comes only one week after another Russian national was beheaded on the same charges, according to a video released by ISIS.

Khasiev Magomid, 24, was a Chechen national who had entered the ISIS-held territory under the name of "Haroun" by order from the Russian intelligence. Magomid was beheaded in a chilling video last Wednesday by a Russian member of ISIS identified as Anatoly Zemlyanka.

However, the identities of the five Russians executed on Tuesday remained unknown.

"Leadership of the Islamic State tries to capture all Russian and Chechen spies who have infiltrated into the caliphate's territory, that's why today's operation (execution of the five Russians) was kept confidential," an ISIS-linked media worker in Raqqa told ARA News, on the condition of anonymity for security concerns.

"The five Russian spies were beheaded after providing information on an organized network of spies sent by the enemies of the caliphate to gain security information," the source said. "Their identities were not uncovered because the Islamic State's leadership tries to pursue other members of this network before they escape."

Kiev Post 17/12/2015

The murky story of Oleh Muzhchyl: Russian spy or Ukrainian patriot?

Some knew him as a wise, brilliant Buddhist teacher, others as a legendary Ukrainian patriot ready to die for his fellow countrymen.

If the Security Service of Ukraine (SBU) is to be believed, 50-year-old Oleh Muzhchyl -- killed by SBU counter-terrorism agents in a raid on Dec. 9 -- was actually a mole working for Russian intelligence who had managed to fool everyone for almost two decades.

The SBU said Muzhchyl was a terrorism suspect planning attacks in Kyiv and other cities. It said Muzhchyl shot one officer dead and wounded another before he was shot and killed in Kyiv's Obolon neighborhood.
Muzhchyl used the name Serhiy Amirov on Facebook and went by the nickname Lesnik (ranger). The Donetsk native had spent years in the ultranationalist group "Tryzub," a co-founder of the Right Sector nationalist group. Throughout Russia's war in eastern Ukraine, Muzhchyl led a reconnaissance unit in Donetsk Oblast for Right Sector and gained notoriety for his ruthless anti-Russian sentiment.

But after the dramatic shootout on Dec. 9, some are wondering if it was all an act.

A debate has erupted between those who take the SBU at its word and believe Muzhchyl was working for Russian intelligence, and those who believe there is more to the story – that he was no Russian terrorist, but a Ukrainian one, and it was simply more convenient for authorities to say they had killed a Russian saboteur plotting against them than to say they'd been forced to kill one of their own.

Fighting Russians

For those who knew Muzhchyl and fought alongside him, the version of events offered by the SBU is hard to believe: This "Russian saboteur" had a known track record of fighting against Russian forces in eastern Ukraine, of calling on fellow fighters to take the war to Russian territory and fight back, and of criticizing current authorities in Kyiv for being too "pro-Russian."

Maria, a friend of Muzhchyl's since the early 2000s, is one of those who doubts the SBU's story. She requested anonymity out of fear that her comments could get her in trouble at the university where she works.

"He could have been anything – just not a Russian saboteur," Maria told the Kyiv Post. "I'm absolutely certain of it. Of everyone I know who knew him, nobody believes that he was working for Russia."

Infiltrating Right Sector?

The official narrative on Muchzhyl begs the question: could Russian security services really be so good as to have infiltrated Right Sector and convinced hundreds of Ukrainian fighters that Muzhchyl was the real deal?

SBU spokeswoman Olena Hitlyanska thinks so.

On her Facebook page, she compared Muzhchyl and the other Russian suspects in the group to pro-Russian attackers who had earlier been arrested after bringing explosives to Kyiv to carry out bombings.

Investigators suspect Muzhchyl and his crew of acting as puppets for the Russian security services in much the same way, with the main evidence against him being the fact that he had "repeatedly traveled out of the country using fake passports," including a trip to Russia last fall, she said.

Two named Lesnik?

After an outcry from many Ukrainian activists who accused the SBU of having killed a Ukrainian patriot, Hitlyanska said the outrage was misplaced, that there were in fact two men by the nickname Lesnik. One of them is a hero in Ukraine's east and the other, the one killed in Kyiv, a mole for the Russian security services.

When the real Lesnik first appeared, "the Russian security services decided not to waste time and to make an information clone with the aim of discrediting (the real Lesnik) …. It seems to me, the Russians created the second Lesnik," she wrote.

Those who knew Muzhchyl were not so quick to buy into Hitlyanska's version of events. Nor was Mykola Malomuzh, who headed Ukraine's Foreign Intelligence Service in 2005-2010.

Radical nationalist

Malomuzh said it was unlikely that Muzhchyl was a Russian agent, and that the SBU had not yet provided any evidence that he was. SBU spokeswoman Hitlyanska was not immediately available for a response.

"There is no special service in Russia that would have allowed him to conduct operations against Russia" that would have killed Russians, Malomuzh said, in reference to Muzhchyl's appeals to fellow fighters to carry out attacks in Russia's Rostov Oblast.

Muzhchyl was known in Ukraine's security services since the 1990s, long before the EuroMaidan Revolution.

"We have known him for years," Malomuzh said. "He was always a member of radical nationalist groups that were operating on the edge of the law or flat out breaking it. We recognized him as a person with patriotic but extremist views, who was prepared to commit extremist acts and was able to protect his interests using force."

Declared war on Kyiv

According to Muzhchyl's acquaintances, he had become increasingly angry at the government in recent months and, in a series of manifestos published online, had called for Ukrainian fighters to declare war against authorities in Kyiv.

"It's convenient to portray him as a Russian saboteur, not as a radical patriot fighting against his own government," Malomuzh said.

According to Alexander Valov, a Russian citizen who fought for Ukraine with the Azov Battalion, the three "Russian saboteurs" detained in the SBU operation were volunteers who fought in the east – they just happened to have Russian passports.

The SBU, in its official statement on the incident, failed to mention that the Russian suspects had actually fought on behalf of Ukraine.

Artyom Skoropadksy, the official spokesman for Right Sector, told Ukrainian media on Dec. 11 that Muzhchyl had in fact been a member of Right Sector until Aug. 31, when he publicly declared he was leaving the group. Since then, Skoropadsky said, the group had not had "even the slightest interaction with him, nor did he with us."

According to Muzhchyl's friends in Right Sector, he left the group because he felt they were not being radical enough; he believed they should be attacking not only Russian forces in the east, but also government officials in Kyiv who may be under the influence of the Kremlin.

He was also highly critical of Dmytro Yarosh's leadership of Right Sector, a fact which led to some friction between Muzhchyl and fellow members. In a statement published on Dec. 11, Yarosh said he could not comment on whether or not Muzhchyl was under the control of Russian intelligence -- but he did recall several times when Muzhchyl seemed to have sabotaged operations against Russian forces in the east.

After being sent to attack a group of Russian forces along with other members of the group, Yarosh said, Muzhchyl, who was in charge of the group, "disappeared somewhere. The operation wasn't completed."

Buddhism school

In addition to being a radical nationalist, Muzhchyl was also the founder of a school of Buddhism in Volnovakha, Donetsk Oblast, and by all accounts, he was a devout Buddhist and devoted teacher.

Alex Kulminsky, one of his former students, said while he could not comment on Muzhchil's political views as of late, he never had any reason to suspect his teacher of having ties to Russia.

"I know for sure he didn't have any ties at least with official Russian authorities or services and agents. He always considered them enemies. I learned about his nationalistic position at a time when most modern patriots were still changing their diapers every half an hour," he said.

As for accusations that Muzhchyl was actually a Russian agent, Kulminsky said that nowadays "everyone who goes against the official position is accused of having bonds (with Russia)."

Avenging death

Judging by statements made by Muzhchyl's friends after his death, the Ukrainian authorities have their own internal enemies to contend with in addition to Russian saboteurs.

In a statement published on the social media pages of the ultranationalist group UPA, or the Ukrainian Insurgent Army, members of the group warned family members of Alfa – the SBU's counterterrorism unit – to flee so that they wouldn't be caught in the crossfire when UPA members avenge Muzhchyl's death.

Describing Ukrainian President Petro Poroshenko and the current Ukrainian authorities as "the henchmen and spies of Putin," the group claimed responsibility for the bombing of a Roshen candy shop in Kharkiv on Dec. 9 – and they promised to carry out many more such attacks. Poroshenko is the owner of Roshen, the nation's largest confectionary.

"Our arsenal is much bigger than what was shown. But it's not meant for Ukrainians…only for enemies. For (state-owned Russian) Sberbank branches, embassies, all Russian companies and the scum working for Russia in Ukrainian power structures and the SBU and Defense Ministry. They know who they are, let them wait for it," the statement said.

Despite such threats against the Ukrainian authorities, the SBU has maintained that Muzhchyl was a Russian plant – a claim that the pro-Kremlin and pro-separatist media have delighted in.

Separatist-friendly media analyst Anatoly Shariy, who gained fame for his video analysis and criticism of the new Ukrainian authorities, seemed to rejoice in Muzhchyl's death in comments published on various separatist media sites.

"The funniest thing," he said, "is that this piece of crap, once gloating in the death of a Russian fighter, has now died as a Russian spy. That's symbolic."

RT 20/12/2015

320 foreign spies and agents exposed in Russia in 2015 – Putin

Foreign intelligence services are increasing their activity in Russia, President Vladimir Putin said stressing that the country is ready to provide an adequate response to the challenge.
Russian counterespionage services have "exposed 320 personnel and agents of secret services of foreign states as well as their accomplices," the Russian President said as he spoke to the Russian secret and security services on their professional holiday.

"We see that intelligence services of some countries are intensifying their efforts… focused on Russia," Putin said expressing confidence that Russian security services "are ready to provide an adequate response to this challenge."

The president stressed that he expects that Russia's security services will also efficiently fight corruption and economic crime within as well as protecting the country's borders. He emphasized that state security services should coordinate their work with the military "to boost the capabilities of our [Russian] armed forces."

"We see how efficiently our pilots and intelligence specialists are working [in Syria], how well they coordinate their actions… The [Russian] army, fleet and aviation are using the most advanced weapons [there]," he said stressing that it "is hardly all of our [Russia's] capabilities."

"We are far from using all the means we have there. We do have additional means. And we will use them if required," Putin said, as quoted by RIA Novosti.

In his speech, Putin stressed that terrorists had openly declared war on the whole international community and their actions are a direct threat to Russia. He also said that Russian security services have prevented more than 30 terrorist crimes and called for special attention to be devoted to neutralizing terrorist recruiters and emissaries seeking to involve young people in terrorist activities.

The Russian security services include but are not limited to the Federal Security Service (FSB), Foreign Intelligence Service (SVR), Chief Intelligence Directorate (GRU), Border Guard Service (FPS), Federal Guard Service of the Russian Federation (FSO) and Federal Drug Control Service (FSKN).

Wall Street Journal 29/12/2015

U.S. Spy Net on Israel Snares Congress

National Security Agency's targeting of Israeli leaders also swept up the content of private conversations with U.S. lawmakers

President Barack Obama announced two years ago he would curtail eavesdropping on friendly heads of state after the world learned the reach of long-secret U.S. surveillance programs.

But behind the scenes, the White House decided to keep certain allies under close watch, current and former U.S. officials said. Topping the list was Israeli Prime Minister Benjamin Netanyahu.
The U.S., pursuing a nuclear arms agreement with Iran at the time, captured communications between Mr. Netanyahu and his aides that inflamed mistrust between the two countries and planted a political minefield at home when Mr. Netanyahu later took his campaign against the deal to Capitol Hill.

The National Security Agency's targeting of Israeli leaders and officials also swept up the contents of some of their private conversations with U.S. lawmakers and American-Jewish groups. That raised fears—an "Oh-s— moment," one senior U.S. official said—that the executive branch would be accused of spying on Congress.

White House officials believed the intercepted information could be valuable to counter Mr. Netanyahu's campaign. They also recognized that asking for it was politically risky. So, wary of a paper trail stemming from a request, the White House let the NSA decide what to share and what to withhold, officials said. "We didn't say, 'Do it,' " a senior U.S. official said.

"We didn't say, 'Don't do it.' "

Stepped-up NSA eavesdropping revealed to the White House how Mr. Netanyahu and his advisers had leaked details of the U.S.-Iran negotiations—learned through Israeli spying operations—to undermine the talks; coordinated talking points with Jewish-American groups against the deal; and asked undecided lawmakers what it would take to win their votes, according to current and former officials familiar with the intercepts.

Before former NSA contractor Edward Snowden exposed much of the agency's spying operations in 2013, there was little worry in the administration about the monitoring of friendly heads of state because it was such a closely held secret. After the revelations and a White House review, Mr. Obama announced in a January 2014 speech he would curb such eavesdropping.

In closed-door debate, the Obama administration weighed which allied leaders belonged on a so-called protected list, shielding them from NSA snooping. French President François Hollande, German Chancellor Angela Merkel and other North Atlantic Treaty Organization leaders made the list, but the administration permitted the NSA to target the leaders' top advisers, current and former U.S. officials said. Other allies were excluded from the protected list, including Recep Tayyip Erdogan, president of NATO ally Turkey, which allowed the NSA to spy on their communications at the discretion of top officials.

Privately, Mr. Obama maintained the monitoring of Mr. Netanyahu on the grounds that it served a "compelling national security purpose," according to current and former U.S. officials. Mr. Obama mentioned the exception in his speech but kept secret the leaders it would apply to.

Israeli, German and French government officials declined to comment on NSA activities. Turkish officials didn't respond to requests Tuesday for comment. The Office of the Director of National Intelligence and the NSA declined to comment on communications provided to the White House.

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The White House stopped directly monitoring the private communications of German Chancellor Angela Merkel but authorized the National Security Agency to eavesdrop on her top advisers.

This account, stretching over two terms of the Obama administration, is based on interviews with more than two dozen current and former U.S. intelligence and administration officials and reveals for the first time the extent of American spying on the Israeli prime minister.

Taking office

After Mr. Obama's 2008 presidential election, U.S. intelligence officials gave his national-security team a one-page questionnaire on priorities. Included on the form was a box directing intelligence agencies to focus on "leadership intentions," a category that relies on electronic spying to monitor world leaders.

The NSA was so proficient at monitoring heads of state that it was common for the agency to deliver a visiting leader's talking points to the president in advance. "Who's going to look at that box and say, 'No, I don't want to know what world leaders are saying,' " a former Obama administration official said.

In early intelligence briefings, Mr. Obama and his top advisers were told what U.S. spy agencies thought of world leaders, including Mr. Netanyahu, who at the time headed the opposition Likud party.

Michael Hayden, who led the NSA and the Central Intelligence Agency during the George W. Bush administration, described the intelligence relationship between the U.S. and Israel as "the most combustible mixture of intimacy and caution that we have."

The NSA helped Israel expand its electronic spy apparatus—known as signals intelligence—in the late 1970s. The arrangement gave Israel access to the communications of its regional enemies, information shared with the U.S. Israel's spy chiefs later suspected the NSA was tapping into their systems.

When Mr. Obama took office, the NSA and its Israeli counterpart, Unit 8200, worked together against shared threats, including a campaign to sabotage centrifuges for Iran's nuclear program. At the same time, the U.S. and Israeli intelligence agencies targeted one another, stoking tensions.

"Intelligence professionals have a saying: There are no friendly intelligence services," said Mike Rogers, former Republican chairman of the House Intelligence Committee.

Early in the Obama presidency, for example, Unit 8200 gave the NSA a hacking tool the NSA later discovered also told Israel how the Americans used it. It wasn't the only time the NSA caught Unit 8200 poking around restricted U.S. networks. Israel would say intrusions were accidental, one former U.S. official said, and the NSA would respond, "Don't worry. We make mistakes, too."

In 2011 and 2012, the aims of Messrs. Netanyahu and Obama diverged over Iran. Mr. Netanyahu prepared for a possible strike against an Iranian nuclear facility, as Mr. Obama pursued secret talks with Tehran without telling Israel.
Convinced Mr. Netanyahu would attack Iran without warning the White House, U.S. spy agencies ramped up their surveillance, with the assent of Democratic and Republican lawmakers serving on congressional intelligence committees.

By 2013, U.S. intelligence agencies determined Mr. Netanyahu wasn't going to strike Iran. But they had another reason to keep watch. The White House wanted to know if Israel had learned of the secret negotiations. U.S. officials feared Iran would bolt the talks and pursue an atomic bomb if news leaked.

The NSA had, in some cases, spent decades placing electronic implants in networks around the world to collect phone calls, text messages and emails. Removing them or turning them off in the wake of the Snowden revelations would make it difficult, if not impossible, to re-establish access in the future, U.S. intelligence officials warned the White House.

Instead of removing the implants, Mr. Obama decided to shut off the NSA's monitoring of phone numbers and email addresses of certain allied leaders—a move that could be reversed by the president or his successor.

There was little debate over Israel. "Going dark on Bibi? Of course we wouldn't do that," a senior U.S. official said, using Mr. Netanyahu's nickname.

One tool was a cyber implant in Israeli networks that gave the NSA access to communications within the Israeli prime minister's office.

Given the appetite for information about Mr. Netanyahu's intentions during the U.S.-Iran negotiations, the NSA tried to send updates to U.S. policy makers quickly, often in less than six hours after a notable communication was intercepted, a former official said.

Emerging deal

NSA intercepts convinced the White House last year that Israel was spying on negotiations under way in Europe. Israeli officials later denied targeting U.S. negotiators, saying they had won access to U.S. positions by spying only on the Iranians.

By late 2014, White House officials knew Mr. Netanyahu wanted to block the emerging nuclear deal but didn't know how.

On Jan. 8, John Boehner, then the Republican House Speaker, and incoming Republican Senate Majority Leader Mitch McConnell agreed on a plan. They would invite Mr. Netanyahu to deliver a speech to a joint session of Congress. A day later, Mr. Boehner called Ron Dermer, the Israeli ambassador, to get Mr. Netanyahu's agreement.

Despite NSA surveillance, Obama administration officials said they were caught off guard when Mr. Boehner announced the invitation on Jan. 21.

Soon after, Israel's lobbying campaign against the deal went into full swing on Capitol Hill, and it didn't take long for administration and intelligence officials to realize the NSA was sweeping up the content of conversations with lawmakers.

The message to the NSA from the White House amounted to: "You decide" what to deliver, a former intelligence official said.

NSA rules governing intercepted communications "to, from or about" Americans date back to the Cold War and require obscuring the identities of U.S. individuals and U.S. corporations. An American is identified only as a "U.S. person" in intelligence reports; a U.S. corporation is identified only as a "U.S. organization." Senior U.S. officials can ask for names if needed to understand the intelligence information.

The rules were tightened in the early 1990s to require that intelligence agencies inform congressional committees when a lawmaker's name was revealed to the executive branch in summaries of intercepted communications.

A 2011 NSA directive said direct communications between foreign intelligence targets and members of Congress should be destroyed when they are intercepted. But the NSA director can issue a waiver if he determines the communications contain "significant foreign intelligence."

The NSA has leeway to collect and disseminate intercepted communications involving U.S. lawmakers if, for example, foreign ambassadors send messages to their foreign ministries that recount their private meetings or phone calls with members of Congress, current and former officials said.

"Either way, we got the same information," a former official said, citing detailed reports prepared by the Israelis after exchanges with lawmakers.

During Israel's lobbying campaign in the months before the deal cleared Congress in September, the NSA removed the names of lawmakers from intelligence reports and weeded out personal information. The agency kept out "trash talk," officials said, such as personal attacks on the executive branch.

Administration and intelligence officials said the White House didn't ask the NSA to identify any lawmakers during this period.

"From what I can tell, we haven't had a problem with how incidental collection has been handled concerning lawmakers," said Rep. Adam Schiff, a California Democrat and the ranking member of the House Permanent Select Committee on Intelligence. He declined to comment on any specific communications between lawmakers and Israel.

The NSA reports allowed administration officials to peer inside Israeli efforts to turn Congress against the deal. Mr. Dermer was described as coaching unnamed U.S. organizations—which officials could tell from the context were Jewish-American groups—on lines of argument to use with lawmakers, and Israeli officials were reported pressing lawmakers to oppose the deal.

"These allegations are total nonsense," said a spokesman for the Embassy of Israel in Washington.

A U.S. intelligence official familiar with the intercepts said Israel's pitch to undecided lawmakers often included such questions as: "How can we get your vote? What's it going to take?"

NSA intelligence reports helped the White House figure out which Israeli government officials had leaked information from confidential U.S. briefings. When confronted by the U.S., Israel denied passing on the briefing materials.

The agency's goal was "to give us an accurate illustrative picture of what [the Israelis] were doing," a senior U.S. official said.

Just before Mr. Netanyahu's address to Congress in March, the NSA swept up Israeli messages that raised alarms at the White House: Mr. Netanyahu's office wanted details from Israeli intelligence officials about the latest U.S. positions in the Iran talks, U.S. officials said.

A day before the speech, Secretary of State John Kerry made an unusual disclosure. Speaking to reporters in Switzerland, Mr. Kerry said he was concerned Mr. Netanyahu would divulge "selective details of the ongoing negotiations."

The State Department said Mr. Kerry was responding to Israeli media reports that Mr. Netanyahu wanted to use his speech to make sure U.S. lawmakers knew the terms of the Iran deal.

Intelligence officials said the media reports allowed the U.S. to put Mr. Netanyahu on notice without revealing they already knew his thinking. The prime minister mentioned no secrets during his speech to Congress.

In the final months of the campaign, NSA intercepts yielded few surprises. Officials said the information reaffirmed what they heard directly from lawmakers and Israeli officials opposed to Mr. Netanyahu's campaign—that the prime minister was focused on building opposition among Democratic lawmakers.

The NSA intercepts, however, revealed one surprise. Mr. Netanyahu and some of his allies voiced confidence they could win enough votes.

Thanks Spectre

Chart Section Index

1. Logging Abbreviations Explained
2. Number Systems
3. Prediction Chart
4. M01 Schedule
5. M12 Yearly Round Up
6. Family III
7. G06
8. HM01 Schedule
9. XPA c, e and XPA2 m, r Schedules
10. XPA2 p Schedule

January 2016

Logging Abbreviations explained.

The ENIGMA 2000 Standard logging should take this form without any personalised abbreviations:

E07 10436kHz 1740z 07/06[414 1 563 102 92632 … 09526 0 0 0 0 0 0] 1753z Fair QRM2 QSB2 PLdn SUN

Station:	E07	[Traits of stations in ENIGMA Control List]
Freq:	kHz	[As above 10436kHz]
Time:	z	[Always 24hour clock, 'z' states GMT/UTC]
Date:	day/month [As above 7th June]	

Msg detail: Varies with station

ID taken from 100kHz fig in freqs:	414 [freqs used in this schedule were 13468, 12141 and 10436kHz]
Msg count	1
Dk [decode key]:	563
Gc [group count]:	102
First group of msg:	92632
Text between grps:	…
Last group:	09526 [where more than one group is stated the use of LG ahead group indicates 'Last Group.']
Ending:	0 0 0 0 0 0
Time msg ends:	1753z
Received signal strength assessment:	Fair
Noise	QRM2
Fading to signal	QSB2

Monitor:	PLdn	
Day heard:	SUN	
Unknown:	unk	
Repeat:	R	[which can be expanded to mean]:
Repeated :	R5m [repeated 5 mins]; R5s[repeated 5seconds], R5x [Repeated 5 times]	

Received signal strength assessment.

Some receivers possess 'S' meters that give a derived indication of signal strength caused by changes within that receiver. Calibration may, or may not be accurate and the scale, may or may not, be the same as that on other receivers. Some receivers have no meter yet produce acceptable results.

Therefore we prefer the quality of the signal to be assessed by the particular monitor.

Guidance for this can be sought from the Q code:

QSA What is the strength of my signals (or those of...)?
The strength of your signals (or those of...) is...
1) scarcely perceptible.
2) weak.
3) fairly good.
4) good.
5) very good.
[QSA1 S0 to S1; QSA2 S1 to S3; QSA3 S3 to S6; QSA4 S6 to S9; QSA4 S9 and above]

Sooner than put a numerical value we state: Very Weak, Weak, Fair, Strong or Very Strong.

Noise, Static and Fading.

Again guidance from the Q code:

Noise:

QRM Are you being interfered with?
I am being interfered with
1) nil
2) slightly
3) moderately
4) severely
5) extremely.

Note: in the sample the monitor has stated QRM2 which means 'slight noise'; had the interference been from a broadcast station you might have read 'BC QRM2' and so on.

Static [Lightning and other atmospheric disturbance]:

QRN Are you troubled by static?
I am troubled by static
1) nil
2) slightly
3) moderately
4) severely
5) extremely.

Fading [Propagational disturbance]

QSB Are my signals fading?
Your signals are fading
1) nil
2) slightly
3) moderately
4) severely
5) extremely.

Note: in the sample the monitor has stated QSB2 which means 'slight fading' where the received signal obviously fades but the message is still intelligible.

The use of QRM1, QRN1 and QSB1 is not expected; if there is no such aberration to the signal it need not be stated.

Day Abbreviation

Self explanatory: SUN, MON, TUE, WED, THU, FRI, SAT

Mode used in transmission

Generally the mode of transmission is not stated, being available in the ENIGMA Control List. Should the expected mode change then this can be stated as: CW [Carrier Wave] MCW[Modulated Carrier Wave] ICW [Interrupted Carrier Wave] generally associated with Morse transmission; AM [Amplitude Modulation], LSB [Lower Sideband], USB[Upper Sideband] generally associated with Voice transmission.

Languages used

The ident of a station generally states the language in use, E [English], G[German] S [Slavic], V[All other languages].

Non voice stations

M [Morse and TTY] HM [Hybrid Mode: Voice/Data] SK [Digital modes] X [Other modes]

Ideally we would like to see logs offered in our standard format allowing the editorial staff to process the results quickly rather than having to manually re-format. Anyone submitting logs should refrain from using their own abbreviations or shortening our abbreviations eg. Su Mo Tu etc.

See a correct example below which is now self explanatory:

V02a 5883kHz 0700z 06/06[A63752 57781 31521] Fair QRN2 end unk PLdn SAT

And the incorrect version:

V2a 5883k 07:00 06/06/2009 A/63752- 57781- 31521 S3 PLdn SA

Additional Info:

Own station idents should not be used.

When an unidentifiable station is submitted please supply the obvious details:

Freq, Time start and end, Date, Message content, particularly preamble and message content and ending. Language details are helpful, particularly any strange pronunciations.

Other details about stations can be found in the ENIGMA Control List available from Group files or sent when you joined.

NUMBER SYSTEMS

European Numbers sytems:

English	**zero**	**one**	**two**	**three**	**four**	**five**	**six**	**seven**	**eight**	**nine**
Bulgarian	nul	edín	dva	tri	chétiri	pet	shest	sédem	ósem	dévet
French	zero	un	deux	trois	quatre	cinq	six	sept	huit	neuf
German^	null	eins	zwei	drei	vier	fünf	sechs	sieben	acht	neun
Spanish	cero	uno	dos	tres	cuatro	cinco	seis	siete	ocho	nueve
Czech	nula	jeden	dva	tr^i	chtyr^i	pêt	shest	sedm	osm	devêt
Polish	zero	jeden	dwa	trzy	cztery	pie,c'	szes'c'	siedem	osiem	dziewie,c'
Romanian	zero	unu	doi	trei	patru	cinci	s,ase	s,apte	opt	nouâ
Slovak*	nula	jeden	dva	tri	shtyri	pät'	shest'	sedem	osem	devät'
* West	nula	jeden	dva	try	shtyry	pet	shest	sedem	ossem	devat
* East	nula	jeden	dva	tri	shtyri	pejc	shesc	shedzem	osem	dzevec
Serbo-Croat	nula	jèdan	dvâ	trî	chètiri	pêt	shêst	sëdam	ösam	dëve:t
Slovene	nula	ena	dva	tri	shtiri	pet	shest	sedem	osem	devet
Russian	null	odín	dva	tri	chety're	pyat'	shest'	sem'	vósem'	dévyat'

^ Some German numerals have a radio accent and totally in keeping with German armed forces The numbers in question are:

2 ZWEI pronounced as TSWO

5 FUNF pronounced as FUNUF, poss hrd as a fast TUNIS

9 NEUN pronounced by some as NEUGEN

A peculiar pronunciation of three DREI, has crept into G11 transmissions, heard as ‘ZYNCE’ the ‘Y’ as in eye.

Numeral Systems used on selected Slavic Stations [*those discontinued in italics*]

	Actual Polish[S11]	**S11a Cherta**	***S11 Kreska***	***S10d***	***S17c***
0	zero	nul	*zero*	*Nula**	*Nula**
1	jedynka	adinka	*yezinka*	*Jeden^*	*Jeden^*
2	dwójka	dvoyka	*dvonta*	*dva*	*dva*
3	trójka	troyka	*troika*	*tri ‘*	*tri ‘*
4	cztery	chetyorka	*chidiri*	*shytri*	*shytri*
5	pi¹tka	petyorka	*peyonta*	*pyet*	*pyet*
6	szeœæ	shest	*shes*	*shest*	*shest*
7	siedem	syem	*sedm*	*sedoom*	*sedoom*
8	osiem	vosyem	*osem*	*Osoom~*	*Osoom~*
9	dziewie,c'	dyevyet	*prunka*	*devyet*	*devyet*

Notes on Numeral Systems used on selected Slavic Stations:

* Nula heard as ‘nul’

^ Jeden heard as ‘Yedinar’

‘ Tri heard as ‘she’

~ Osoom often heard as ‘bossoom’ or ‘Vossoom.’

Arabic Numerals [E25 and V08]

English	zero	one	two	three	four	five	six	seven	eight	nine
	0	1	2	3	4	5	6	7	8	9
Arabic	sifr	wahid	itnien	talata	arba	khamsa	sitta	saba	tamanya	tissa
	٠	١	٢	٣	٤	٥	٦	٧	٨	٩

Chinese Number System:

[*Particular attn to Yi/Yao pse*].

0	Ling	Zero
1	Yi/Yao	One (It appears there is a radio version of Yao. On the telephone it is pronounced Yi; also heard in V16)
2	Er	Two
3	San	Three
4	Si	Four (The number four in Chinese is always unlucky, because it sounds the same as the word for death which is also pronounced 'Si' but with a different tone).
5	Wu	Five
6	Liu	Six
7	Qi	Seven
8	Ba	Eight
9	Jiu	Nine

Shi	Ten	Ba	One Hundred	Wan	One Thousand

Chinese numeral construction:

For example:

San	Three
San Shi	Thirty. In English they are saying Three and Ten.
San Shi Jiu	Thirty Nine. In English they are saying Three, Ten and Nine.
San Bai	Three Hundred. In English they are saying Three and One Hundred.
San Wan	Three Thousand. In English they are saying Three and One Thousand.

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jan kHz, ID, ...	Feb kHz, ID, ...
						x	0100/0120/0140		V07	01B	16037/14637/12137 661	18368/16268/13968 329
		x	x				0315		E11	03	5779 253/00	5779 253/00
x	x	x	x	x			0400		S06	01A	15721 480	15721 480
x							0450		E11	03	5082 416/00	5082 416/00
	x			x			0455		S11A	03	4828 321/00	4828 321/00
x		x		x		x	0500		HM01	18	5855	5855
	x		x		x		0500		HM01	18	11462	11462
		x					0530/0540		S06S	01A	7425/ 9069 464	7425/ 9069 464
			x				0530/0550/0610		E07A	01B	5111/ 5811/ 6911 189	5111/ 5811/ 6911 189
x							0530/0550/0610		M12	01B	4457/ 5157/ 417, search	4617/ 5317/ 5817 638
		x		x			0545		E11	03		
x		x		x		x	0600		HM01	18	10345	10345
	x		x		x		0600		HM01	18	14375	14375
x				**x**			**0600/0610**		**E11A**	**03**	**13046 181/00**	**13046 181/00**
	x						0600/0610		S06S	01A	16145/14240 438	16145/14240 438
					x		0600/0620/0640		M12	01B	5839/ 7439 842, search	7637/ 9137/10237 612
			x	x			0600/0700	1/3	E06	01B	13960/16350 139	17470/20085 702
						x	0600/0700		M14	01A	5947/ 6767 382	5947/ 6767 382
						x	0630/0640		S06S	01A	13470/16515 524	13470/16515 524
	x		x				0645		E11	03	7840 517/00	7840 517/00
x		x		x		x	0700		HM01	18	9330	9330
	x		x		x		0700		HM01	18	13435	13435
						x	0700		M01	01B	5465 197	5465 197
				x			0700/0710		S06S	01A	7150/ 8215 169	7150/ 8215 169
	x						0700/0710(15)		S06S	01A	5250/ 6320 374	5250/ 6320 374
		x			x		0700/0720/0740		E07	01B	search	search
				x			0700/0720/0740		M12	01B	9138/10538/12138 138	9338/10638/12138 238
		x			x		0700/0720/0740		XPAc	01B	9109/10909/12209	11409/13509/14609

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jan kHz, ID, ...	Feb kHz, ID, ...
	x			x			0710		E11	03	10800 633/00	10800 633/00
			x		x		0710		E11	03	**12924** 491/00	**12924** 491/00
				x		x	0730		E11	03	**16112** 352/00	**16112** 352/00
	x						0730/0740		S06S	01A	7410/11532 427	7410/11532 427
			x				0730/0750/0810		M12	01B	5284/ 5784/ 277, search	5884/ 6884/ 888, search
x							0745		E11	03	10213 262/00	10213 262/00
	x		x				0745		E11	03	16112 335/00	16112 335/00
x							0800	**1/3**	G06	01A	**5320** 329	**5320** 329
x		x		x		x	0800		HM01	18	9065	9065
	x		x		x		0800		HM01	18	10635	10635
			x				0800/0810		E17Z	01A	11170, 9820 674	11170, 9820 674
	x						0800/0810		S06S	01A	11945/13195 352	11945/13195 352
x		x					0800/0820/0840		M12	01B	14736/13536/12136 751	17427/15827/14527 485
x		x					0800/0820/0840		XPA2p	01B	15978/14978/14378	15983/14783/13883
					x		0800/0900		M14	01A	5430/ 5561 171	5430/ 5561 171
		x				x	0805		E11	03	10429 311/00	10429 311/00
x			x				0820		E11	03	10125 438/00	10125 438/00
		x					0820/0830		S06S	01A	**8417/ 9262** 471	**8417/ 9262** 471
x				x			0830		E11	03	9446 649/00	9446 649/00
x							0830/0840		S06S	01A	8057/ 8530 371	8057/ 8530 371
		x					0830/0840		S06S	01A	7335/11830 745	7335/11830 745
			x	x			0830/0930		S06S	01A	16227/ 842, search	17440/15614 842
x		x					0900		E11	03	9446 534/00	9446 534/00
x		x		x		x	0900		HM01	18	9240	9240
	x		x		x		0900		HM01	18	11462	11462
x							0900/0910		S06S	01A	14675/12830 872	14675/12830 872
			x				0900/0910		S06S	01A	12952/13565 167	12952/13565 167
			x				0900/0910		S06S	01A	5765/ 6315 624	5765/ 6315 624
					x		0900/0920/0940		E07A	01B	11123/12123/13423 114	11053/12153/13553 015
	x			x			0915		S11A	03	7504 484/00	7504 484/00

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jan kHz, ID, ...	Feb kHz, ID, ...
		x	x				0930		E11	03	9950 270/00	9950 270/00
			x				0930/0940		S06S	01A	8812/ 9540 314	8812/ 9540 314
				x			0930/0940		S06S	01A	11780/12570 516 9445/10195 search	11780/12570 516 9445/10195 search
x		x		x		x	1000		HM01	18	5855/ 9155	5855/ 9155
	x		x		x		1000		HM01	18	11635/12180	11635/12180
	x						1000/1010		S06S	01A	6440/ 5660 893	6440/ 5660 893
		x					1000/1010		S06S	01A	12365/14280 729	12365/14280 729
			x			x	1010/1030/1050		M12	01B	13369/14669/15969 369	13569/14869/16269 582
x			x				1015		S11A	03	12530 475/00	12530 475/00
	x			x			1020		S11A	03	9610 426/00	9610 426/00
	x						1045		E11	03	12153 576/00	12153 576/00
	x						1100/1110		S06S	01A	5035/5975 754	5035/5975 754
x							1100/1120/1140		M12	01B	12205/13559/14728 973, check	12205/13559/14728 973
		x					1200	?	G06	01A	4946 248	4946 248
			x				1200/1210		S06S	01A	12155/10920 425	12155/10920 425
					x		1200/1210		S06S	01A	8680/ 8260 254	8680/ 8260 254
	x	x					1205		E11	03	**11100** 469/00	**11100** 469/00
	x	x					1300		E11	03	18030 133/00	18030 133/00
		x					1300	?	G06	01A	4051 248	4051 248
			x				1300		G06	01A	4460 329	4460 329
x							1300/1310		S06S	01A	8420/10635 831	8420/10635 831
					x		1300/1310/1320		M42C	01C	10526/16142/14674	19441/17456/15817
	x					x	1300/1320/1340		XPA2m	01B	16138/14438/13438	
			x		x		1310/1330/1350		M12	01B	7692/ 6792/ 678, search	9162/ 8062/ 7462 104
x		x					1320		M03	03	4505 543/00	4505 543/00
			x			x	1320		M03	03	4828 **4505?** 437/00	4828 **4505?** 437/00
	x						**1345**		**E11**	**03**	**14666** **911/00**	**14666** **911/00**
				x	x		1400/1420/1440		XPA2r	01B	16167/14664/13924	18667/17419/16212
					x		1500		M01	14	5810 197	5810 197

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jan kHz, ID, ...	Feb kHz, ID, ...
	x						1500/1510		S06S	01A	6845/ 9170 537	6845/ 9170 537
			x				1500/1520/1540		M12	01B	13386/12189/11491 725, check	13386/12189/11491 725
	x					x	1500/1520/1540		XPA2m	01B		16338/14538/13538
			x				1530		E11	03	5409 262/00	5409 262/00
x						**x**	1540		E11	03	15632 228/00	15632 228/00
x	x	x	x	x	x	**x**	1600		HM01	18	11435	11435
					x		1600 (1605)		S06	01A	6778 (5073) 491	6778 (5073) 491
				x			1610/1630/1650		E07A	01B	7632/ 6832/ 5832 688	9347/ 8147/ 6847 318
		x				x	1625		E11	03	10448 978/00, check	10448 978/00
x							1700	1/2	G06	01A	3728 248	3728 248
x	x	x	x	x	x	**x**	1700		HM01	18	11530	11530
x							1700/1720/1740		M12	01B	11435/10598/ 9327 938	11435/10598/ 9327 938
			x				1700/1720/1740		M12	01B	13386/12189/11491 725	13386/12189/11491 725
				x			1700/1800	1/3	M14	01A	5374/ 4975 382	5374/ 4975 382
		x			x		1705		E11	03	9443 392/00	9443 392/00
			x				1730		E11	03	5082 416/00	5082 416/00
x							1800	1/2	G06	01A	4484 248	4484 248
x	x	x	x	x	x	**x**	1800		HM01	18	11635	11635
	x		x				1800		M01	14	5320 197	5320 197
		x				x	1800/1820/1840		E07	01B	8194/ 6794/ 5294 172	10219/ 9119/ 7519 215
x		x					1800/1820/1840		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
		x					1800/1820/1840		M12	01B	9176/ 7931/ 6904 257	4515 564
			x				1800/1820/1840		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
					x		1810/1820/1830		M42C	01C	7682/ 5387/ 4572	9151/ 7639/ 5249
	x						1820	2/4	M14	01A	4636 186	4636 186
			x				1830	2/4	G06	01A	4519 271	4519 271
		x					1900/1920/1940		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
	x		x				1900/1920/1940		XPAe	01B	7891/ 6791/ 5391	8123/ 7523/ 6823
x							1910		M01B	14	2435, 3519 853	2435, 3519 853
		x					1920	2/4	M14	01A	4761 748	4761 748

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jan kHz, ID, ...	Feb kHz, ID, ...
	x		x				1925		E11	03	551/00, search	551/00, search
				x			1930	2/4	G06	01A	4792 436	4792 436
	x						1930/1950/2010		M12	01B	10343/ 9264/ 8116 124	10343/ 9264/ 8116 124
		x					1930/1950/2010		M12	01B	11435/10598/ 9327 938	11435/10598/ 9327 938
		x		x			1955		S11A	03	5815 371/00	5815 371/00
				x			2000		E11	03	6304 576/00	6304 576/00
	x		x				2000		M01	14	4490 197	4490 197
			x				2000/2010/2020		M42C	01C	5793/ 4538/ 3827	6796/ 5205/ 4030
x		x					2000/2020/2040		E07	01B	6982/ 5882/ 5182 988	7724/ 6924/ 5824 798
x	x	x	x	x	x	x	2000/2020/2040		M12	01B	8047/ 6802/ 5788 463	8047/ 6802/ 5788 463
	x					x	2000/2020/2040		XPA2m	01B		
					x		2000/2100	1/3	S06	01A	4047/ 3522 738	4047/ 3522 738
				x			2002		M01B	14	2653, 3197 866	2653, 3197 866
					x	x	2005		E11	03	11107 363/00	11107 363/00
x							2015		M01B	14	2427, 3205 375	2427, 3205 375
			x				2030	1/3	E06	01A	4836 321	4836 321
			x				2042		M01B	14	2485, 3160 382	2485, 3160 382
x		x		x		x	2100		HM01	18	11635	11635
	x		x		x		2100		HM01	18	16180	16180
		x					2100/2120/2140		E07A	01A	5877/ 5277/ 4577 825	5877/ 5277/ 4577 825
				x			2110		M01B	14	2405, 3180 610	2405, 3180 610
			x				2110/2130/2150		E07	01B	6777/ 5449/ 4483 774	6777/ 5449/ 4483 774
				x			2130	1/3	E06	01A	4760 472	4760 472
x		x		x		x	2200		HM01	18	10715	10715
	x		x		x		2200		HM01	18	17480	17480
		x					2200/2220/2240		M12	01B	5361/ 4461/ 340, search	5429/ 4629/ 4029 460
x		x		x		x	2300		HM01	18	11530	11530
	x		x		x		2300		HM01	18	17540	17540

M01 FREQUENCY LIST

Frequencies may vary by a few kHz

JAN FEB NOV DEC M01/1 197

DAY	TIME UTC	FREQ kHz
TUE / THU	1800	5320
TUE / THU	2000	4490
SAT	1500	5810
SUN	0700	5465

MAR APRIL SEPT OCT M01/2 463

DAY	TIME UTC	FREQ kHz
TUE / THU	1800	5475
TUE / THU	2000	5020
SAT	1500	6260
SUN	0700	6510

MAY JUNE JULY AUG M01/3 025

DAY	TIME UTC	FREQ kHz
TUE / THU	1800	5280
TUE / THU	2000	4905
SAT	1500	6435
SUN	0700	6780

M12 Yearly Repeat Schedules 2014 - 2015 **Brian S.E. England**

ime UTC			Freq kHz			ID	M	T	W	T	F	S	S
Jan													
05**30**	05**50**	06**10**	4457	5157	- - -	417	X						
0600	0620	0640	5838	7438	- - -	842						X	
07**30**	07**50**	08**10**	5284	5784	- - -	277				X			
10**10**	10**30**	10**50**	13369	14669	15964	369				X			X
1900	1920	1940	9176	7931	6904	257	X			X			
2200	2220	2240	5361	4461	4061	340			X				
Feb													
05**30**	05**50**	06**10**	4617	5317	- - -	638	X						
0600	0620	0640	7637	9137	10237	612						X	
07**30**	07**50**	08**10**	5884	6884	- - -	888				X			
10**10**	10**30**	10**50**	13569	14869	16269	582				X			X
13**10**	13**30**	13**50**	9162	8062	- - -	104				X		X	
1800	1820	1840	10343	9264	8116	124				X			
1900	1920	1940	9176	7931	6904	257	X			X			
2200	2220	2240	5429	4629	4029	460			X				
Mar													
05**30**	05**50**	06**10**	5792	6992	- - -	796	X						
0600	0620	0640	8158	9258	10658	126						X	
07**30**	07**50**	08**10**	6784	7684	8184	761				X			
10**10**	10**30**	10**50**	14769	16269	18169	721				X			X
13**10**	13**30**	13**50**	12214	10814	9214	282				X		X	
1800	1820	1840	10343	9264	8116	124				X			
1900	1920	1940	9176	7931	6904	257	X			X			
2200	2220	2240	5763	5163	4463	714			X				

Time UTC			Freq kHz			ID	M	T	W	T	F	S	S
Apr													
04**30**	04**50**	05**10**	5792	6992	- - -	796	X						
06**30**	06**50**	07**10**	7484	8084	- - -	402				X			
13**10**	13**30**	13**50**	14468	13568	12178	451				X		X	
1800	1820	1840	10343	9264	8116	124				X			
1900	1920	1940	9176	7931	6904	257	X						
2100	2120	2140	6793	5893	4593	785			X				
21**10**	21**30**	21**50**	11469	10469	9169	441			X			X	
May													
04**30**	04**50**	05**10**	6857	7557	- - -	850	X						
06**30**	06**50**	07**10**	7984	9184	- - -	911				X			
13**10**	13**30**	13**50**	13926	12126	10926	919				X		X	
1800	1820	1840	10343	9264	8116	124				X			
1900	1920	1940	9176	7931	6904	257	X						
2100	2120	2140	9241	7541	6841	258			X				
21**10**	21**30**	21**50**	14869	13569	12179	851			X			X	
Jun													
04**30**	04**50**	05**10**	6857	7557	- - -	850	X						
06**30**	06**50**	07**10**	7984	9184	- - -	911				X			
13**10**	13**30**	13**50**	13873	13373	11473	834				X		X	
1800	1820	1840	10343	9264	8116	124				X			
1900	1920	1940	9176	7931	6904	257	X						
2100	2120	2140	9986	9086	7386	903			X				
21**10**	21**30**	21**50**	16269	14669	13369	263			X			X	

M12 Yearly Repeat Schedules 2014 - 2015 **Brian S.E. England**

Time UTC			Freq kHz			ID	M	T	W	T	F	S	S
July													
04**30**	04**50**	05**10**	6857	7557	- - -	850	X						
06**30**	06**50**	07**10**	7984	9184	- - -	911				X			
13**10**	13**30**	13**50**	13926	12126	10926	919				X		X	
1800	1820	1840	10343	9264	8116	124				X			
1900	1920	1940	9176	7931	6904	257	X						
2100	2120	2140	9379	7979	6879	398			X				
21**10**	21**30**	21**50**	14869	13569	12179	851			X			X	
Aug													
04**30**	04**50**	05**10**	5792	6992	- - -	796	X						
06**30**	06**50**	07**10**	7484	8184	- - -	402				X			
13**10**	13**30**	13**50**	14468	13568	12178	451				X		X	
1800	1820	1840	10343	9264	8116	124				X			
1900	1920	1940	9176	7931	6904	257	X						
2100	2120	2140	8123	6923	5823	198			X				
21**10**	21**30**	21**50**	13369	12179	10469	314			X			X	
Sep													
04**30**	04**50**	05**10**	5792	6992	- - -	796	X						
06**30**	06**50**	07**10**	6784	7684	8184	761				X			
13**10**	13**30**	13**50**	13873	13373	11473	834				X		X	
1800	1820	1840	10343	9264	8116	124				X			
1900	1920	1940	9176	7931	6904	257	X						
2100	2120	2140	6793	5893	4593	785			X				
21**10**	21**30**	21**50**	11469	10469	9169	441			X			X	

Repeat schedules were severely reduced from November 2014 by changes to many of the regular schedules. Around 50% of the regular schedules, unchanged for a number of years were retimed to appear one hour later.

This affected the yearly repeats for most of the year, but since November many more scheds are starting to fall back into the repeat pattern, as can be seen by the table above.

Time UTC			Freq kHz			ID	M	T	W	T	F	S	S
Oct													
04**30**	04**50**	05**10**	4617	5317	- - -	638	X						
06**30**	06**50**	07**10**	6784	7684	8184	761				X			
13**10**	13**30**	13**50**	12214	10814	9214	282				X		X	
2100	2120	2140	5814	5214	4614	826			X				
21**10**	21**30**	21**50**	10269	9269	7969	229			X			X	
Nov													
05**30**	05**50**	06**10**	4617	5317	- - -	638	X						
0600	0620	0640	7637	9137	10237	612						X	
07**30**	07**50**	08**10**	5884	6884	- - -	888				X			
10**10**	10**30**	10**50**	15969	17479	18169	941				X			
13**10**	13**30**	13**50**	9162	8062	- - -	104				X		X	
1800	1820	1840	8047	6802	5788	463	X						
1800	1820	1840	10343	9264	8116	124				X			
1900	1920	1940	9176	7931	6904	257	X						
19**30**	19**50**	20**10**	10343	9264	8116	124		X					
19**30**	19**50**	20**10**	11435	10598	9327	938			X				
2200	2220	2240	5429	4629	4029	460			X				
Dec													
05**30**	05**50**	06**10**	4457	5157	- - -	417	X						
0600	0620	0640	5784	7584	9184	751						X	
07**30**	07**50**	08**10**	5284	5784	6784	277				X			
10**10**	10**30**	10**50**	13569	14869	16269	582				X			X
13**10**	13**30**	13**50**	7741	6841	5741	787						X	
1800	1820	1840	8047	6802	5788	463	X						
1800	1820	1840	9176	7931	6904	257			X				
1800	1820	1840	10343	9264	8116	124				X			
1900	1920	1940	9176	7931	6904	257	X						
19**30**	19**50**	20**10**	10343	9264	8116	124		X					
2200	2220	2240	5312	4512	4012	350			X				

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jan kHz, ID, ...	Feb kHz, ID, ...	Nov kHz, ID, ...	Dec kHz, ID, ...	Remarks
		x	x				0315		E11	03	5779 253/00	5779 253/00	5779 253/00	5779 253/00	since 01/14, last log 12/15
x							0450		E11	03	5082 416/00	5082 416/00	5082 416/00	5082 416/00	since 02/10, last log 12/15 2nd transmission Thu 1730z
	x			x			0455		S11A	03	4828 321/00	4828 321/00	4828 321/00	4828 321/00	since 09/14, last log 12/15
		x		x			0545		E11	03					since 06/11, last log 09/15
x				**x**			**0600/0610**		**E11A**	**03**	**13046 181/00**	**13046 181/00**	**13046 181/00**	**13046 181/00**	**since 07/15, last log 12/15**
	x		x				0645		E11	03	7840 517/00	7840 517/00	7840 517/00	7840 517/00	since 07/09, last log 12/15
	x			x			0710		E11	03	10800 633/00	10800 633/00	10800 633/00	10800 633/00	since 02/11, last log 12/15
			x		x		0710		E11	03	**12924** 491/00	**12924** 491/00	**12924** 491/00	**12924** 491/00	since 07/15, last log 11/15
				x		x	0730		E11	03	**16112** 352/00	**16112** 352/00	**16112** 352/00	**16112** 352/00	since 04/15, last log 12/15
x							0745		E11	03	10213 262/00	10213 262/00	10213 262/00	10213 262/00	since 03/14, last log 12/15 2nd transmission Thu 1530z
	x		x				0745		E11	03	16112 335/00	16112 335/00	16112 335/00	16112 335/00	since 10/11, last log 12/15
		x				x	0805		E11	03	10429 311/00	10429 311/00	10429 311/00	10429 311/00	since 07/14, last log 12/15
x			x				0820		E11	03	10125 438/00	10125 438/00	10125 438/00	10125 438/00	since 10/09, last log 12/15
x				x			0830		E11	03	9446 649/00	9446 649/00	9446 649/00	9446 649/00	since 01/10, last log 12/15
x		x					0900		E11	03	9446 534/00	9446 534/00	9446 534/00	9446 534/00	since 10/05, last log 12/15
	x			x			0915		S11A	03	7504 484/00	7504 484/00	7504 484/00	7504 484/00	since 01/10, last log 12/15
		x	x				0930		E11	03	9950 270/00	9950 270/00	9950 270/00	9950 270/00	since 02/14, last log 12/15
x			x				1015		S11A	03	12530 475/00	12530 475/00	12530 475/00	12530 475/00	since 04/10, last log 12/15
	x			x			1020		S11A	03	9610 426/00	9610 426/00	9610 426/00	9610 426/00	since 02/10, last log 12/15 2nd transmission Thu 1730z
	x						1045		E11	03	12153 576/00	12153 576/00	12153 576/00	12153 576/00	since 01/12, last log 12/15 2nd transmission Fri 2000z
	x	x					1205		E11	03	**11100** 469/00	**11100** 469/00	**11100** 469/00	**11100** 469/00	since 03/10, last log 12/15
	x	x					1300		E11	03	18030 133/00	18030 133/00	18030 133/00	18030 133/00	since 08/13, last log 12/15
x		x					1320		M03	03	4505 543/00	4505 543/00	4505 543/00	4505 543/00	since 08/13, last log 12/15
			x			x	1320		M03	03	4828 **4505?** 437/00	4828 **4505?** 437/00	4828 437/00	4828 **4505?** 437/00	since 02/11, last log 11/15
	x						**1345**		**E11**	**03**	**14666 911/00**	**14666 911/00**	**14666 911/00**	**14666 911/00**	**since 10/15, last log 12/15**
			x				1530		E11	03	5409 262/00	5409 262/00	5409 262/00	5409 262/00	since 06/14, last log 12/15 2nd transmission Mon 0745z
x						**x**	1540		E11	03	15632 228/00	15632 228/00	15632 228/00	15632 228/00	since 03/11, last log 11/15
		x				x	1625		E11	03	10448 978/00, check	10448 978/00	10448 978/00	10448 978/00	since 02/15, last log 12/15
		x			x		1705		E11	03	9443 392/00	9443 392/00	9443 392/00	9443 392/00	since 02/14, last log 12/15
			x				1730		E11	03	5082 416/00	5082 416/00	5082 416/00	5082 416/00	since 03/10, last log 12/15 2nd transmission Mon 0450z
	x		x				1925		E11	03	551/00, search	551/00, search	551/00, search	551/00, search	since 07/15, last log 10/15
		x		x			1955		S11A	03	5815 371/00	5815 371/00	5815 371/00	5815 371/00	since 02/14, last log 12/15
				x			2000		E11	03	6304 576/00	6304 576/00	6304 576/00	6304 576/00	since 03/12, last log 12/15 2nd transmission Tue 1045z
					x	x	2005		E11	03	11107 363/00	11107 363/00	11107 363/00	11107 363/00	since 03/14, last log 12/15 2nd transmission Thu 1530z

Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC	wk	Stn	Fam	Jan kHz, ID, ...	Feb kHz, ID, ...	Nov kHz, ID, ...	Dec kHz, ID, ...	Remarks
x							0800	**1/3**	G06	01A	**5320** 329	**5320** 329	**5320** 329	**5320** 329	since 07/10, last log 12/15 repeat at Thu 1300Z
		x					1200	?	G06	01A	4946 248	4946 248	4946 248	4946 248	since 10/14, last log 11/15 yearly changing frequencies + id repeat at 1300Z
		x					1300	?	G06	01A	4051 248	4051 248	4051 248	4051 248	since 10/14, last log 11/15 yearly changing frequencies + id repeat from 1200Z
			x				1300		G06	01A	4460 329	4460 329	4460 329	4460 329	since 09/11, last log 11/15 repeat from Mon 0800Z
x							1700	1/2	G06	01A	3728 248	3728 248	3728 248	3728 248	since 04/10, last log 12/15 yearly changing frequencies + id repeat at 1800Z
x							1800	1/2	G06	01A	4484 248	4484 248	4484 248	4484 248	since 05/09, last log 12/15 yearly changing frequencies + id repeat from 1700Z
			x				1830	2/4	G06	01A	4519 271	4519 271	4519 271	4519 271	since 05/01, last log 12/15 repeat at Fri 1930Z
				x			1930	2/4	G06	01A	4792 436	4792 436	4792 436	4792 436	since 04/01, last log 12/15 repeat from Thu 1830Z

Current HM01 Schedules

Freq 1	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5855	0500	0500		0500		0500	
11462			0500		0500		0500
10345	0600	0600		0600		0600	
14375			0600		0600		0600
9330	0700	0700		0700		0700	
13435			0700		0700		0700
9065	0800	0800		0800		0800	
11635			0800		0800		0800
9240	0900	0900		0900		0900	
11462			0900		0900		0900
5855	1000	1000		1000		1000	
9155	1000	1000		1000		1000	
12180			1000		1000		1000
11435	1600	1600	1600	1600	1600	1600	1600
11530	1700	1700	1700	1700	1700	1700	1700
11635	1800	1800	1800	1800	1800	1800	1800
11635	2100	2100		2100		2100	
16180			2100		2100		2100
10715	2200	2200		2200		2200	
17480			2200		2200		2200

XPA[Sched c & e] and XPA2[Sched m, r & t] Russian Intelligence Multitone Systems [Radiogramma] Transmission Schedules

Zulu > / Month v	0600/0700 Sched c Wednesday/Saturday USB 10baud			1730/1900 Sched e Tuesday / Thursday USB 10baud			XPA2 Sched m Various Sun/Tue H 00 H+20 H+40 1300,1500,1800,2000,2100			XPA2 Sched r Various Fri/Sat H 00 H+20 H+40 1400, 1900, 2100		
Jan	9108	10908	12208	7891	6791	5391	16138	14438	13438	16167	14663	13923
Feb	11409	13509	14609	8123	7523	6823	16338	14538	13538	18667	17419	16212
Mar	11409	13509	14609	9362	8062	7462	16138	14438	13438	18667	17419	16212
Apr	10359	11559	13559	10943	10243	9243	14538	13538	12138	17462	16114	14828
May	10868	12168	13368	10438	9938	9138	14538	13538	12138	17462	16114	14828
June	11409	13509	14609	10438	9938	9138	14738	13438	12138	16167	14663	13923
July	11409	13509	14609	10943	10243	9243	14538	13538	12138	15967	13884	12217
Aug	10868	12168	13368	12187	10787	9387	14738	13438	12138	16167	14663	13923
Sept	10359	11559	13559	11576	10476	9276	14538	13538	12138	16167	14663	13923
Oct	10868	12168	13368	9362	8062	7462	16338	14538	13538	17462	16114	14828
Nov	11409	13509	14609	8123	7523	6823	18238	16238	14438	17462	16114	14828
Dec	7756	9056	10656	8164	7364	5864	14538	13538	12138	15967	13884	12217

Notes:

Freqs shown in *italics* indicate unsure freqs, or en bloc transmissions that are believed to have closed.

XPA c 0600/0700z schedule appears to be robust with reasonably strong signals into UK
XPA e 1730/1900z schedule E appears robust; sometimes difficult to receive in Great Britain, monitor in Slovenia has good success.
XPA2 m Repetitive frequency triplets, appears robust, generally strong into UK
XPA2 r Schedule appears robust; generally very strong signals to UK

XPA2 p Six day variable schedule, separate document

Updated 05/09/2015

XPA2 p Russian Intelligence Multitone Systems [Radiogramma] Transmission Schedules

Zulu H+20	Sun			Mon			Tue			Wed			Thu			Fri			Sat		
Jan 0800				15978	14978	14378				15978	14978	14378									
Feb 0800				15983	14783	13883				15983	14783	13883									
Mar 0800				15956	14956	13956				15956	14956	13956									
Apr 1500	16147	14947	14447													16147	14947	14447			
May 1500	16314	15814	14514													16314	15814	14514			
June 1900							15884	14984	14384				15884	14984	14384						
July 1900							15884	14984	14384				15884	14984	14384						
Aug 1900							16314	15814	14514				16314	15814	14514						
Sept 1500	16147	14947	14447													16147	14947	14447			
Oct 1500	16147	14947	14447													16147	14947	14447			
Nov 0800				16073	14973	14373				16073	14973	14373									
Dec 0800				15861	14761	13561				15861	14761	13561									

XPA2 p

Appears to be a robust schedule
Strong into UK

05/09/2015

SPECIAL MATTERS

Operation Jallaa: Nil Return

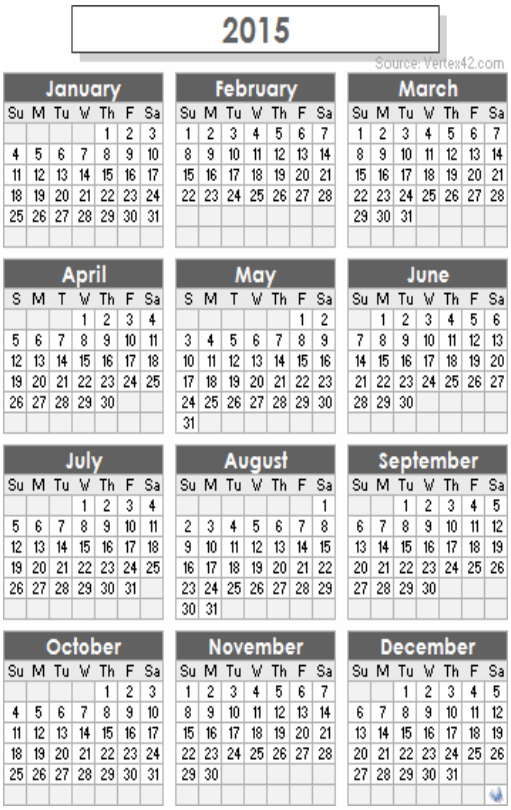
MESSAGES:

'E' . OK?

RELEVANT WEBSITES

ENIGMA 2000 Website:	http://www.enigma2000.org.uk
Frequency Details can be downloaded from:	http://www.cvni.net/radio/
More Info on 'oddities' can be found on Brian of Sussex' excellent web pages:	http://www.brogers.dsl.pipex.com/page2.html
Time zone information:	http://www.timeanddate.com/library/abbreviations/timezones/
Encyclopedia of Espionage, Intelligence, and Security	http://www.espionageinfo.com/

EyeSpyMag! http://www.eyespymag.com



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